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BULLETIN OF

ELIZABETHTOWN COLLEGE

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ELIZABETHTOWN
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Women's Residence

Men's Residence

Elizabethtown College Bulletin

Published Quarterly

Sixty-first Annual Catalog Number

Accredited by the Middle States Association
and
The University of the State of New York

Student Register for 1959-1960

Announcement of Courses 1960-1961

Vol. XLVI *January, 1960* *No. 3*

ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

Entered as second class matter June 14, 1915 at the Post Office at Elizabethtown, Pa. under Act of Congress of August 24, 1912
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ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNA.

College Calendar

Summer Sessions—1960

June	13	*Monday*.....Summer Session I Begins
July	4	*Monday*.....Independence Day (No Classes)
July	15	*Friday*.....Summer Session I Ends
July	18	*Monday*.....Summer Session II Begins
August	19	*Friday*.....Summer Session II Ends

Academic Year 1960–1961

September	12–13	*Monday-Tuesday*.Freshman Orientation and Registration
September	13	*Tuesday*, 8:00 a.m.....Day Student Upperclassman Registration
September	14	*Wednesday*, 8:00 a.m.....Boarding Student and Upperclassman Registration
September	15	*Thursday*, 7:40 a.m.....Classes Begin
September	21	*Wednesday*, 9:30 a.m.....Charter Day Convocation
October	15	*Saturday*.....Homecoming Day
November	13	*Sunday*.....Founder's Day
November	22	*Tuesday*, 5:00 p.m.....Thanksgiving Recess Begins
November	28	*Monday*, 7:40 a.m.....Classes Resume
December	16	*Friday*, 5:00 p.m.....Christmas Recess Begins
January	3	*Tuesday*, 7:40 a.m.....Classes Resume
January	16–25	*Monday thru Wednesday*...First Semester Examinations
January	25	*Wednesday*, 5:00 p.m.....First Semester Ends
January	30–31	*Monday-Tuesday*.....Second Semester Registration
February	1	*Wednesday*, 7:40 a.m.....Classes Begin
March	24	*Friday*, 5:00 p.m.....Easter Recess Begins
April	3	*Monday*, 7:40 a.m.....Classes Resume
May	13	*Saturday*.....May Day
May	17–26	*Wednesday thru Friday*...Second Semester Examinations
May	26	*Friday*, 5:00 p.m.....Second Semester Ends
May	27	*Saturday*.....Alumni Day
May	28	*Sunday*.....Baccalaureate Service
May	29	*Monday*.....Commencement

Summer Sessions—1961

June	19	*Monday*.....Summer Session I Begins
July	4	*Tuesday*.....Independence Day (No Classes)
July	21	*Friday*.....Summer Session I Ends
July	24	*Monday*.....Summer Session II Begins
August	25	*Friday*.....Summer Session II Ends

Location

In the heart of the rich agricultural and industrial area of southeastern Pennsylvania, Elizabethtown College is situated on a spacious campus in the southeastern section of Elizabethtown in Lancaster County.

The borough of Elizabethtown is equidistant (about 18 miles) from three county seats: Lancaster, Lebanon, and Harrisburg. It is about 22 miles from York. Elizabethtown has a population of 7,000. It is accessible by rail on the main line of the Pennsylvania Railroad, by automobile on Route 230, and by air via the Harrisburg Airport. It is 90 miles west of Philadelphia, 75 miles north of Baltimore, and 150 miles southwest of New York City.

History and Purpose

Elizabethtown College was founded by a group of men of the Church of the Brethren who had a common interest in higher education. On June 7, 1899, Elizabethtown was selected as the location for the College. A charter was secured on September 23, 1899. Ground was broken on July 10, 1900, for the first building, Alpha Hall. Classes started on November 13, 1900.

In the early years, the College was supported chiefly by individual contributors. But on April 26, 1917, the ownership and control was transferred to the Eastern District of Pennsylvania of the Church of the Brethren. On October 30 of the same year, the Southern District of Pennsylvania joined in the ownership and control of the College. The charter was amended accordingly and trustees elected by these two districts assumed the responsibility of directing the College on January 2, 1919.

Elizabethtown College was fully accredited by the State Council of Education of Pennsylvania on December 19, 1921, to confer the customary degrees in arts and sciences. The first baccalaureate degrees were conferred at the Commencement on June 8, 1922.

On May 5, 1948, Elizabethtown College was fully accredited by the Middle States Association of Colleges and Secondary Schools. On March 18, 1949, the New York State Department of Education also approved the College. The College holds membership in the Association of American Colleges and the American Council on Education.

The founders of the College stated in the original charter that the purpose of the College was "to give such harmonious development to the physical, mental, and moral powers of both sexes as

will best fit them for the duties of life and promote their spiritual interests." In keeping with this philosophy the College has always offered her facilities without discrimination.

These general principles have formed the bases upon which the ideals of the founders and the Church of the Brethren have endeavored to carry on a program of Christian education.

These ideals expressed in more specific statements are as follows:

(a) That men and women can serve God through any vocation which serves the needs of mankind.
(b) That a man can give his best only when he keeps his mind as the master of his body.
(c) That a clean body and a clear mind devoted to a high purpose are basic requirements for a Christian life.
(d) That life in college calls for hard work and firmness of purpose.
(e) That a college education is regarded not only as "preparation for life" but *as life.*
(f) That genuine culture is the outcome of knowledge and Christian character rather than the result of the knowledge of certain subjects or the acquiring of skills.

In order to realize these ideals, Elizabethtown College has set up the following patterns:

Religious

Elizabethtown College endeavors to cultivate Christian attitudes and convictions in all students in all areas of life. Christ is held as the consummate revelation of God and the Saviour of mankind. The Bible is regarded as the inspired Word of God. The College encourages an atmosphere of spirituality conducive to the development of leaders for the Christian church. Each department aims to create an atmosphere sympathetic to the Church of Jesus Christ.

The student Christian organizations provide opportunity for students to participate in a large variety of religious activities. All students are required to attend chapel services, where, through the singing of the great hymns of the Church, the reading of the Scriptures and the lifting of hearts in prayer, students may learn to practice more fully the art of meditation and prayer so that they will form the habit of personal daily devotions and will practice it after they leave college.

Students and faculty members are invited to attend any of the eleven churches in the community. Faiths represented include Church of the Brethren, Brethren in Christ, Roman Catholic, Church of God, Lutheran, Mennonite, United Church of Christ, Mt. Calvary Independent, Evangelical United Brethren, United Zion, and Christian and Missionary Alliance. Churches of other denominational groups are near.

Intellectual

Elizabethtown College aims to acquaint students with the cultural heritage of man and to enable them to interpret the spiritual and material achievements of the race necessary for intelligent participation in the affairs of modern society. The College therefore aims to have each student devote the first two years to a general education. The work of the last two years is set up to meet the requirements for entrance upon a vocation or further preparation. A number of well-outlined curricula are presented in the catalog so that students can make a careful study of requirements before entering upon a particular field of study.

College-sponsored lyceum programs and the facilities of the college library are provided for students and are available to the public.

Social

Elizabethtown College believes that the development of the basic social graces is essential in Christian education. The College aims to give guidance and aid for the cultivation of courtesy, refinement, forbearance and human understanding in the fine art of living with others. In keeping with the ideals of the Church of the Brethren, which supports the College, it encourages a full social program directed toward the development of the highest kind of Christian character. Gambling and the use of alcoholic beverages are strictly forbidden.

Vocational

Elizabethtown College recognizes the importance of serving the interests and needs of its students. Various tests are administered to all students. A counseling system is maintained so that students can have access to the advice of any administrative officer and/or faculty member. Conferences and discussions setting forth the requirements and opportunities of various occupations are held from time to time. A number of courses, particularly in the junior and senior years, have a distinctly vocational emphasis. The College maintains a placement service for all of her graduates.

The College recognizes her obligations to the students not only so long as they are attending classes, but after they have completed their course of study. To this end a placement committee stands ready to help find suitable employment and to assist students who wish to enter graduate or professional schools.

Christian education in Elizabethtown College means sound scholarship coupled with industry, personal purity, honesty, thrift and thoroughness. These are the basic principles of genuine culture. They constitute the foundation for an adequate education for our day.

The Board of Trustees

OFFICERS

JOSEPH W. KETTERING.....*Chairman*
N. S. SELLERS.....*Vice Chairman*
JOHN G. HERSHEY.....*Secretary*
EARL H. KURTZ.....*Treasurer*

MEMBERS

A. C. BAUGHER, A.B., B.S., M.S., Ph.D., LL.D., *President*, Member Ex-officio

HONORARY TRUSTEES

JOSEPH N. CASSEL.....Collegeville, Pa.
JOHN M. MILLER.....Lititz, Pa.

Term Expires Dec. 31		
	Eastern Pennsylvania	
1960	Norman K. Musser	Columbia, Pa.
1960	John G. Hershey, A.B., B.D., A.M.	Lititz, Pa.
1960	Martha A. Bucher, B.S.	Quarryville, Pa.
1961	S. Clyde Weaver	East Petersburg, Pa.
1961	Howard A. Merkey	Manheim, Pa.
1961	D. Kenneth Hollinger	Lemoyne, Pa.
1962	F. S. Carper, D.D.	Palmyra, Pa.
1962	Joseph W. Kettering, B.S., C.P.A., D.C.S.	Elizabethtown, Pa.
	Southern Pennsylvania	
1960	Chester H. Royer, A.B., A.M.	York, Pa.
1961	Cyrus G. Bucher, B.S.	Biglerville, Pa.
1962	N. S. Sellers	Lineboro, Maryland
1962	Jacob L. Miller	York, Pa.
	Nominated by the Alumni Association	
1960	Ethel M. B. Wenger, A.B., A.M.	Rexmont, Pa.
1961	Galen C. Kilhefner, B.S., Ed.M., Ed.D.	Elizabethtown, Pa.
1962	I. Wayne Keller, B.S., D.C.S.	Lancaster, Pa.
	Nominated by the Board of Trustees	
1960	S. S. Wenger, A.B., A.M., LL.B.	Lancaster, Pa.
1961	Paul M. Grubb	Elizabethtown, Pa.
1961	J. Aldus Rinehart, B.S., A.M., C.P.A., LL.B.	West Englewood, N. J.
1961	D. C. Stambaugh	Queens, N. Y.
1961	Eli H. Stoltzfus	Phoenixville, Pa.
1962	Horace E. Raffensperger, A.B., A.M., D.Ped.	Elizabethtown, Pa.
1962	John F. Sprenkel, B.S.	York, Pa.

The Board holds two regular meetings each year, the one during Commencement week, and the other on the second Saturday in October.

COMMITTEES OF THE BOARD OF TRUSTEES

Executive Committee

JOSEPH W. KETTERING, S. S. WENGER, NOAH S. SELLERS, JOHN G. HERSHEY, H. E. RAFFENSPERGER

Finance Committee

NORMAN K. MUSSER, CYRUS G. BUCHER, I. WAYNE KELLER, CHESTER H. ROYER, ELI H. STOLTZFUS

Buildings and Grounds Committee

PAUL M. GRUBB, JOHN F. SPRENKEL, HOWARD A. MERKEY, S. CLYDE WEAVER, GALEN C. KILHEFNER

Nominating Committee

JOSEPH W. KETTERING, JACOB L. MILLER, FRANK S. CARPER, A. C. BAUGHER, MARTHA A. BUCHER

The Chairman of the Board and the President of the College are ex-officio members of all committees.

The Faculty

A. C. BAUGHER, 1917, 1941*

President of the College

Pd.B., Elizabethtown College, 1917; A.B., Elizabethtown College, 1922; B.S., Franklin and Marshall College, 1922; M.S., University of Pennsylvania, 1928; Ph.D., New York University, 1937; LL.D., Franklin and Marshall College, 1949; Graduate Student, Columbia University.

ROY E. McAULEY, 1956—

Dean of the College

B.S., McPherson College, 1944; B.D., Bethany Biblical Seminary, 1946; M.A., University of Omaha, 1949; Ed.D., University of Denver, 1955.

Emeriti

J. Z. HERR

Emeritus Treasurer and Business Manager

B.E., Elizabethtown College, 1905; Columbia University.

MARTHA MARTIN

Emeritus Instructor in Bible

A.B., Elizabethtown College, 1924; Student, Bethany Biblical Seminary; Student, Biblical Seminary, New York; Graduate Student, University of Pennsylvania.

GERTRUDE ROYER MEYER, 1920—

Emeritus Instructor in Piano

Graduate in Music, Western Maryland College, 1913; Student, Columbia University; Piano Clinic, New York City; Student, Peabody Conservatory of Music.

MARY B. REBER

Emeritus Instructor in Art

B.E., Elizabethtown College, 1905; Art Student, Albright College; Columbia University.

L. D. ROSE

Historical Research Assistant

A.B., Ursinus College, 1911; A.M., University of Pennsylvania, 1932; Graduate Student, University of Pennsylvania.

Professors

BESSIE D. APGAR, 1946—

Professor of Biology

A.B., Muskingum College, 1923; M.S., University of Pittsburgh, 1926; Ph.D., University of Pennsylvania, 1934.

CHARLES S. APGAR, 1945—

Professor of Biology

B.S., University of Pittsburgh, 1926; M.S., University of Pittsburgh, 1927; Ph.D., University of Pittsburgh, 1930.

* Date of appointment to present office.
The date indicates the year in which the individual joined the college staff.

* JAMES M. BERKEBILE, 1957—

Professor of Chemistry

A.B., Manchester College, 1934; A.M., The Ohio State University, 1935; Ph.D., The Ohio State University, 1951.

ROBERT A. BYERLY, 1951—

Professor of Bible and Director of Religious Activities

A.B., Oklahoma A. and M. College, 1942; B.D., Bethany Biblical Seminary, 1946; A.M., Butler University, 1950; Graduate Student, Garrett Biblical Institute; S.T.D., Temple University, 1959.

NEVIN W. FISHER, 1951—

Professor of Music

Graduate, Blue Ridge College, Department of Music-Piano, 1919, Voice 1920; Peabody Conservatory of Music, Teacher's Certificate, 1922; B.M., Eastman School of Music, University of Rochester, 1940; M.Mus., Northwestern University, 1947; Columbia University and Julliard School of Music, Summer, 1950.

ALBERT L. GRAY, JR., 1951—

Professor of Business

B.S., Drexel Institute of Technology, 1939; M.B.A., Boston University, 1940; Ph.D., University of Pennsylvania, 1958.

FREDERICK C. NEUMANN, 1945—

Professor of Language

Ph.D. (Language), University of Vienna, 1921; Ph.D. (Political Science), University of Vienna, 1927; Graduate Student, University of Prague, University of Bristol, and University of Richmond.

RALPH WIEST SCHLOSSER, 1911–1929, 1930—

Professor of English

Pd.B., Elizabethtown College, 1911; A.B., Ursinus College, 1911; A.M., Columbia University, 1922; Litt.D., Ursinus College, 1932; Student, Bethany Biblical Seminary; Graduate Student, Columbia University; University of Pennsylvania.

O. F. STAMBAUGH, 1946—

Professor of Chemistry

B.S., Lebanon Valley College, 1930; M.S., The Pennsylvania State University, 1933; Ph.D., The Pennsylvania State University, 1943.

N. FRANKLIN STUMP, 1955—

Professor of Education

B.S., University of West Virginia, 1921; A.M., Yale University, 1923; Ph.D., Cornell University, 1935; Graduate Student, Columbia University and New York University.

Associate Professors

VERA R. HACKMAN, 1944—

Dean of Women and Associate Professor of English

A.B., Elizabethtown College, 1925; A.M., Columbia University, 1936; Teachers' College Professional Diploma, Columbia University, 1950.

* On leave of absence, 1959 to 1961.

* CARL E. HEILMAN, 1942—

Associate Professor of Mathematics

A.B., Lebanon Valley College, 1929; A.M., Duke University, 1940; Graduate Student, University of Chicago, Syracuse University, Temple University.

ELMER B. HOOVER, 1947—

Associate Professor of Education and Director of Teacher Training

B.S., Juniata College, 1937; M.Ed., The Pennsylvania State University, 1939; Graduate Student, The Pennsylvania State University.

LOUISE K. KELLY, 1952–54, 1957—

Associate Professor of English

A.B., Skidmore College, 1936; M.A., The Pennsylvania State University, 1938; Ph.D., The Pennsylvania State University, 1951.

EPHRAIM GIBBLE MEYER, 1921—

Brethren Historical Librarian

Pd.B., Elizabethtown College, 1919; Graduate Music Teachers' Course, Elizabethtown College, 1921; A.B., Elizabethtown College, 1924; Student, American Conservatory of Music, Chicago; A.M., Columbia University, 1930; Diploma, Teacher of Public School Music, Columbia University, 1930; Graduate Student, Columbia University.

CLYDE KENNETH NELSON, 1959—

Associate Professor of History

A.B., The King's College, 1943; B.D., Eastern Baptist Seminary, 1945; Th.M., Eastern Baptist Seminary, 1946; M.A., University of Pennsylvania, 1949; Doctoral Candidate, University of Pennsylvania, 1951.

CHARLES A. RAHTER, 1958—

Associate Professor of English

A.B., Western Maryland College, 1949; M.A., University of Pennsylvania, 1951; Ph.D., University of Pennsylvania, 1958.

JEFFERSON D. SWINEBROAD, 1959—

Associate Professor of Business

A.B., University of Tennessee, 1926; M.A., University of Colorado, 1939; Registered Accountant, State Board of Accountancy of Colorado, 1937.

DONALD R. VOSBURGH, 1958—

Associate Professor of Sociology

B.S., Utica College of Syracuse University, 1951; A.M., Syracuse University, 1953; D.S.S., Syracuse University, 1958.

Assistant Professors

EDGAR T. BITTING, 1952—

Assistant Professor of Business

B.S., Elizabethtown College, 1950; M.B.A., University of Pennsylvania, 1952.

IRVIN L. BOSSLER, 1959—

Assistant Professor of Mathematics

B.S., Ursinus College, 1949; M.S. in Mathematics, Purdue University, 1951; Rensselaer Polytechnic Institute, Summer, 1956.

* On leave of absence, 1959 to 1961.

HUBERT M. CUSTER, 1953—

Assistant Professor of Physics

B.S., Carnegie Institute of Technology, 1944; M.S., Franklin and Marshall College, 1959; Graduate Student, University of Washington.

ELINOR EASTLACK, 1952—

Assistant Professor of Business Education

B.S., The Pennsylvania State University, 1945; M.Ed., The Pennsylvania State University, 1949; Graduate Student, The University of Southern California, The University of Colorado; Student, University of Hawaii, University of Mexico, Franklin and Marshall College.

CLARENCE G. ENTERLINE, 1956—

Assistant Professor of Business and Alumni Secretary

B.S., Albright College, 1933; M.S., University of Pennsylvania, 1936; Graduate Student, University of Pennsylvania, University of New Hampshire, University of Maine, The Pennsylvania State University.

MILDRED H. ENTERLINE, 1956—

Assistant Professor of English

A.B., Ursinus College, 1931; M.A., Northwestern University, 1938; Graduate Student, University of Pennsylvania, New York University, University of Maine, University of New Hampshire, The Pennsylvania State University.

EDITH H. FELLENBAUM, 1957—

Assistant Professor of Education

A.B., Gettysburg College, 1921; M.A., Johns Hopkins University, 1957.

D. PAUL GREENE, 1953—

Director of Admissions

A.B., Bridgewater College, 1946; B.D., Bethany Biblical Seminary, 1949.

HENRY G. HOOD, JR., 1959—

Assistant Professor of History

B.A., Haverford College, 1948; M.A., Harvard University, 1949; Ph.D., University of Pennsylvania, 1957.

EARL H. KURTZ, 1957—

Treasurer and Assistant Professor of Business

B.S., Elizabethtown College, 1935; Temple University, Wharton School of Business of the University of Pennsylvania; M.A., New York University, 1938.

ELINOR B. NEUMANN, 1946—

Assistant Professor of German and English

A.B., Swarthmore College; M.A., Middlebury College; Graduate Student Westhampton College for Women and Goethe University of Frankfurt-am-Main.

EMILY C. RAHTER, 1958—

Librarian

A.B., University of Mississippi, 1938; B.S. in L.S., Columbia University School of Library Service, 1946.

ARMON C. SNOWDEN, 1957—

Assistant Professor of Bible and Philosophy

A.B., Elizabethtown College, 1951; B.D., Crozer Theological Seminary, 1954; University of Pennsylvania, Duke University.

BRUCE M. TYNDALL, 1957—

Assistant Professor of Mathematics

B.A., State University of Iowa, 1955; Roosevelt University; M.S., State University of Iowa, 1956.

WILBUR E. WEAVER, 1943–44, 1954—

Assistant Professor of Business and Assistant to the Treasurer

B.S., Elizabethtown College, 1937; M. Ed., Temple University, 1942.

CARL W. ZEIGLER, 1959—

Assistant Professor of Sociology

A.B., Elizabethtown College, 1931; B.D., United Theological Seminary, 1947; D.D., Elizabethtown College, 1951; Graduate Student, Bethany Biblical Seminary, University of Pennsylvania.

Instructors

ROBERT D. BOWERS, 1959—

Instructor in Business

B.S. in Economics, Albright College, 1956; Graduate Student, The Pennsylvania State University.

R. LEE BYERS, 1959—

Instructor in Physics and Mathematics

B.A., Juniata College, 1958; B.S. in Chemical Engineering, Carnegie Institute of Technology, 1958; M.S. in Chemical Engineering, University of Rochester, 1959.

EDWARD L. CRILL, 1959—

Director of Student Personnel Services

A.B., Manchester College, 1946; M.Ed., Johns Hopkins University, 1953.

EMMA R. ENGLE, 1949—

Registrar and Instructor in English

A.B., Elizabethtown College, 1948; Student, Columbia University.

IRA R. HERR, 1928–1929, 1932—

Director of Athletics and Instructor in Physical Education

A.B., Franklin and Marshall College, 1916; Graduate Student, University of Pennsylvania and Temple University.

KATHRYN N. HERR, 1946—

Instructor in French

A.B., Lebanon Valley College, 1925; School Library Certification, Temple University, 1930; French Institute, The Pennsylvania State University, Summer, 1936; Graduate Student, University of Pennsylvania, 1958.

HENRY MILLER LIBHART, 1959—

Instructor in English

A.B., Franklin and Marshall College, 1949; M.A. Equivalent Certificate, The Pennsylvania State University, 1958.

ZOE G. PROCTOR, 1959—
Instructor in Chemistry
B.S., Elizabethtown College, 1956; Graduate Student, Bucknell University, 1956–1958; Franklin and Marshall College, 1959.

JULIA A. RISSER, 1955—
Instructor in Physical Education
B.S., Lock Haven State Teachers College, 1954; Graduate Student, Northwestern University, The Pennsylvania State University.

DONALD P. SMITH, 1954—
Instructor in Physical Education
B.S., University of Mississippi, 1950; Graduate Student, University of Mississippi.

HELEN L. WARD, 1959—
Assistant to the Librarian
B.F.A., Syracuse University, 1935; M.A., Columbia University, 1939; B.S. in L.S., Pratt Institute Library School, 1950.

JAMES L. M. YEINGST, 1957—
Instructor in Journalism and Director of Public Relations
A.B., Elizabethtown College, 1957; Graduate Student, The Pennsylvania State University.

Part-time Instructors

JAMES F. BAUGHER, 1959—
Assistant in Basketball
B.S., Elizabethtown College, 1957.

HENRY F. GINGRICH, 1951—
Part-time Instructor in Law
A.B., Elizabethtown College, 1949; LL.B., Temple University, 1952.

RICHARD L. HERSHEY, 1957—
Part-time Instructor in Physical Education
B.S., Franklin and Marshall College, 1947; Massachusetts Institute of Technology.

PHARES H. HERTZOG, 1953—
Part-time Instructor in Chemistry and Curator of the Museum
B.S., Bucknell University, 1910; M.A., Princeton University, 1914.

NOAH M. KLAUSS, 1956—
Director of the Band and Orchestra
Elizabethtown College

JEAN ANN ROGERS, 1959—
Part-time Instructor in Physical Education
B.S., Elizabethtown College, 1959.

HELEN J. SHEELY, 1955—
Part-time Instructor in Art
B.A., The Pennsylvania State University, 1944; B.S., Kutztown State Teacher's College, 1951.

CHARLES W. WEAVER, 1944—

Part-time Instructor in Medical Laboratory Technique

B.S., Elizabethtown College, 1926; M.D., Hahnemann Medical College, 1930; Member, Lancaster General Hospital Staff.

J. ATLEE YOUNG, 1957—

Part-time Instructor in Organ

Columbia College, Peabody Conservatory, Northwestern University, Christiansen Choral School.

Officers of Administration

A. C. Baugher, A.B., B.S., M.S., Ph.D., LL.D.,
President of the College

Roy E. McAuley, B.S., B.D., M.A., Ed.D....*Dean of the College*
Earl H. Kurtz, B.S., M.A.....*Treasurer*
Wilbur E. Weaver, B.S., M.Ed....*Assistant to the Treasurer*
D. Paul Greene, A.B., B.D.....*Director of Admissions*
Vera R. Hackman, A.B., A.M.....*Dean of Women*
Robert A. Byerly, A.B., B.D., A.M., S.T.D.....
.....*Director of Religious Activities*
Emily C. Rahter, A.B., B.S. in L.S.....*Librarian*
Emma R. Engle, A.B....*Registrar and Secretary to the Faculty*
Edward L. Crill, A.B., M.Ed.....
.....*Director of Student Personnel Services and Dean of Men*
Ira R. Herr, A.B.....*Director of Athletics*
Clarence G. Enterline, B.S., M.S.....*Alumni Secretary*
James L. M. Yeingst, A.B.....*Director of Public Relations*
Nevin H. Zuck, A.B., B.D., S.T.M., D.D.....*College Pastor*
E. G. Meyer, A.B., A.M....*Director, Brethren Historical Library*
Helen L. Ward, B.F.S., M.A., B.S. in L.S.....
Assistant to the Librarian
L. D. Rose, A.B., A.M.....*Historical Research Assistant*
Betty J. Holsinger, B.S.....*Dietitian*
J. Albert Seldomridge, A.B...*Director of Development Program*
Lucy F. Clemens, R.N.....*College Nurse*
Louise E. Miller, R.N.....*College Nurse*
Robert S. Young.....*Administrative Assistant*
Grace N. Allan.....*Director of Residence*
Jessie K. Cosner.....*Director of Residence*
Mary Cox.....*Director of Residence*
Ethel L. Heaton.....*Director of Residence*
Doris O. Lewis.....*Secretary to the President*
J. Robert Hollinger.....*Bookkeeper*
Martha A. Farver.....*Secretary to the Treasurer*
Ruth B. Mumaw.....*Secretary, Admissions Office*
Gladys M. Singer.....*Secretary to the Dean*
Esther W. Rohrer.....*Receptionist*
Carolyn F. Zarfoss.....*Assistant to the Bookkeeper*
Ruth Ober Miller.....*Secretary to the Registrar*
Emma V. Horne.....*Secretary, Development Office*
Thelma R. Balmer.....*Secretary, Alumni Office*
Sylvia A. Hollinger.....*Secretary, Public Relations Office*
Ruth A. Frank.....*Secretary, Development Office*
Mildred J. Lyter.....*Secretary to Dean of Students*
Esta E. Craighead.....*Secretary, Business Office*
Mary C. Good.....*Clerk, College Store*

Faculty Committees

Administration—A. C. Baugher, Roy E. McAuley, Earl H. Kurtz, Wilbur E. Weaver, Edward L. Crill.

Admissions and Financial Aid—D. Paul Greene and Administrative Committee.

Registration—Emma R. Engle, Roy E. McAuley, Earl H. Kurtz, N. Franklin Stump, W. E. Weaver, Edward L. Crill, Vera R. Hackman, D. Paul Greene.

Instruction—Roy E. McAuley, Emma R. Engle, O. F. Stambaugh, Albert L. Gray, Jr., Elmer B. Hoover, Louise K. Kelly, Clyde K. Nelson.

Counseling and Testing—Roy E. McAuley, N. Franklin Stump, Dean of Women, Dean of Men, Charles A. Rahter.

Library—Emily C. Rahter, Charles S. Apgar, Hubert M. Custer, Donald R. Vosburgh, Henry G. Hood, Jr.

Religious Activities—Robert A. Byerly, Nevin W. Fisher, Armon C. Snowden, A. C. Baugher, Nevin H. Zuck, Carl W. Zeigler, Edward L. Crill.

Social Activities—Vera R. Hackman, Grace N. Allan, Edgar T. Bitting, Elinor Eastlack, Edith H. Fellenbaum, Irvin L. Bossler.

Student Housing—Earl H. Kurtz, Dean of Men, Dean of Women, Grace N. Allan, Jessie K. Cosner.

Food Service—Earl H. Kurtz, Dietitian, Director of Dining Room, Vera R. Hackman.

Athletics—Wilbur E. Weaver, Ira R. Herr, Roy E. McAuley. Edward L. Crill, and the coaches of the several sports.

Community Cultural Programs—Nevin W. Fisher, Earl H. Kurtz, Edgar T. Bitting, Mildred H. Enterline, Robert A. Byerly, Donald W. Deniston (from Patton School), and two students, one each selected by and from the Junior and Senior Classes.

Health—Julia A. Risser, Donald P. Smith, Charles E. Weaver, Vera R. Hackman, the College Nurses.

Special Events—Wilbur E. Weaver, Nevin W. Fisher, Vera R. Hackman, Mildred H. Enterline, C. G. Enterline, Ira R. Herr, the President of the Senior Class, and a member appointed by the Student Senate.

Academic Occasions—Albert L. Gray, Jr., Roy E. McAuley, Nevin W. Fisher, Emma R. Engle, Wilbur E. Weaver.

Television and Radio Programs—James L. M. Yeingst, C. G. Enterline, A. C. Baugher, Jeff D. Swinebroad.

Academic Regulations

All students are expected to be familiar with the information in this bulletin. Each student is responsible, with the advice of Faculty and administrative counselors, for projecting his own course of study which will satisfactorily fulfill the requirements of the college, and which will lead to an acceptable conclusion of an academic program.

Admission Requirements

The Committee on Admissions attempts to select from the list of applicants those students whose records of character, health, and scholarship give evidence of their ability to do college work.

Although it is the aim of Elizabethtown College to give individualized attention to all applicants, the following principles are used by the committee in passing on applications for admission:

1. Graduation from a senior high school accredited by the Middle States Association of Colleges and Secondary Schools or by the Department of Education of the State in which the student lives.
2. Recommendation by the principal of the high school or secondary school.
3. Completion of a minimum of fifteen units of secondary school work.

The requirements for admission to the freshman class are:

English.....3 units	Science.....1 unit
History and Social Studies .....2 units	Mathematics.....2 units
Language.....2 units	Others.....5 units

Candidates whose preparation does not precisely coincide with the foregoing distribution of units may be admitted to the College if, in the judgment of the Committee on Admissions, they are qualified to do satisfactory college work.

4. An interview is recommended either on the campus, or with a representative of the College away from Elizabethtown.

5. It is strongly recommended that all applicants for admission to the freshman class take the Scholastic Aptitude Test given by the College Entrance Examination Board. The application blank for the test and a Bulletin of Information may be obtained by writing to The College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey.

6. In certain cases applicants may petition the Director of Admissions to substitute the Elizabethtown College Equivalent Examination, given on the campus, for the test described above.

7. All students are required to submit a report of good health by the family physician, on a form provided by the College. Chest X-rays are required at two year intervals.

A person seeking admission should write to the Director of Admissions for an application blank.

Elizabethtown College is approved for the training of veterans under Public Laws 550 (Korean), 16 and 894 (Rehabilitation Acts), and 634 (War Orphans).

All veterans who are admitted under the provisions of one of the public laws must furnish the treasurer of the college with a certificate of eligibility and entitlement on the day of registration. This certificate is procured from the Regional Office of the Veterans Administration. Veterans are urged to apply for educational benefits several weeks before they expect to enter college.

The veteran is personally responsible to the college for the payment of fees on the regularly scheduled dates for payment.*

Admission to Advanced Standing

Students may be admitted to advanced standing not later than the beginning of the senior year as follows:

By Examination. Examinations are given only to those who have teaching experience or practical work in the subjects in which the examination is sought, or to those who have pursued such courses under approved instruction. Tests taken for advanced standing will be graded passing or failing. Neither letter grades nor quality points will be given. No examinations will be given for advanced standing credit during the senior year.

From Other Colleges. Such students must present full credentials for both college and preparatory work and a letter of honorable dismissal.

The maximum number of credits accepted from another college will not be in excess of the scale indicated below:

	For the A.B. and B.S. degrees	*For the B.S. degree in Education*
For 1 year's work	32 s.h.	34 s.h.
For 2 years' work	64 s.h.	68 s.h.
For 3 years' work	96 s.h.	102 s.h.

The maximum number of credits is not granted automatically.

* See page 90.

The Curricula

Elizabethtown College offers courses leading to the Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Education degrees.

Majors for the Bachelor of Arts degree

Bible and Philosophy—(see curriculum)

English—Thirty-two hours exclusive of English Composition and including Survey of English Literature, American Literature, and Shakespeare.

French—Eighteen hours.

German—Eighteen hours.

History and Political Science—Twenty-eight to thirty-two hours exclusive of History of Civilization.

Mathematics—(see notation 7, Bachelor of Science curriculum).

Social Studies—Forty-two hours including History and at least one course in each of the following: Economics, Sociology, and Political Science.

Sociology—Eighteen hours exclusive of Introduction to Sociology.

Spanish—Eighteen hours.

Majors for the Bachelor of Science degree

See the various curricula:

Accounting
Biology
Business Administration
Chemistry
Mathematics
Medical Technology
Nursing
Pre-medical sciences

Majors for the Bachelor of Science in Education degree

See the various curricula:

Business Education
Elementary Education
Secondary Education

Student Program

The work of the freshman and sophomore years in each curriculum is to a large extent prescribed. This ensures a foundation in general education which enables the student to select his field of concentration wisely. A wide range of electives is offered beginning with the junior year.

Students are required to take all the prescribed courses of each year.

No student may change from one curriculum or course to another without permission from the Dean.

No credit will be granted for any work for which the student has not formally enrolled.

Credits

Credit is given for work successfully completed by the student and for which a grade of A, B, C, D, has been secured. The unit of credit is the semester hour, which signifies work completed in class meetings of one fifty-minute period or in the laboratory of two or three fifty-minute periods per week throughout a semester of sixteen to eighteen weeks or the equivalent in summer sessions.

Academic Requirements

The academic standing of a student is determined by his participation in the class session, the quality of his laboratory work and outside assignments as well as his success in quizzes and examinations. Grades are reported by the following system: A, excellent; B, good; C, satisfactory; D, poor; F, failing; W, withdrawal; with the grade earned at the time of withdrawal from class (This withdrawal must be approved by the adviser and the Dean. Withdrawal without approval effects automatically a grade of F); I, work incomplete. If a grade of I is not removed within one semester after the close of a course, the grade reported on the permanent record automatically becomes an F. The course must be repeated if credit is desired.

When quality point deficiencies occur, the dean will call the student for a conference.

A student who, at the close of any semester, fails to attain a cumulative quality point-credit ratio according to the following graduated scale is placed on academic probation: throughout the freshman year, 1.70; by the beginning of the sophomore year, 1.80; by the beginning of the junior year, 1.90; and by the beginning of the senior year, 2.00. A student on academic probation may be requested to withdraw from college anytime the Committees on Counseling and Admissions so decide after a consideration of the student's over-all situation.

A student who, at the close of any semester, has a quality point-credit ratio below 2.00 shall not be permitted to carry more than 15 semester hours, and below 3.00, more than 18 semester hours of college work. No student shall be permitted to carry more than 20 semester hours of college work in any one semester.

Class Standing and Requirements for Graduation

Class standing of students is determined on the basis of semester hours and quality points.

Sophomore standing requires 30 semester hours and 60 quality points.

Junior standing requires 60 semester hours and 120 quality points.

Senior standing requires 90 semester hours and 180 quality points.

In order to be eligible for graduation, students must have a credit quality point ratio of at least 2.00. Students transferring from other colleges must have a ratio of at least 2.00 in courses pursued at Elizabethtown College. Quality points are determined as follows:

Grade	*Quality Points per S. H.*
A	4
B	3
C	2
D	1
F	0

All students who transfer to Elizabethtown College are required to pass a competency examination in English. Students who fail to meet minimum standards are required to enroll in En 10a, English Composition and will not be granted credit for a similar course in transfer.

The College reserves the right to require withdrawal of students whose scholarship is not satisfactory, and of those who for any other reason are regarded as not in accord with the ideals and standards which the College seeks to maintain.

A student's program and requirements for graduation shall be ruled by the catalog dated four years prior to his graduation.

A candidate for a degree must earn a minimum of thirty semester hours in classes on the Elizabethtown College campus.

The minimum time requirement for earning a degree is three years and thirty weeks.

The minimum number of credits required of candidates for the Bachelor of Arts (A.B.) degree is 128 semester hours.

The minimum number of credits required of candidates for the Bachelor of Science (B.S.) degree is 128 semester hours, except in the curricula of Education in which 136 semester hours are required.

Courses in Bible are required of all students desiring a degree.

The completion of the required number of semester hours does not presuppose that the student is thereby eligible for the degree for which he is a candidate.

Candidates who have not satisfactorily met the moral and financial obligations incurred while in the pursuit of their college courses will not be recommended for a degree.

Degrees will not be granted in absentia without special permission by the Administrative Committee.

It is the responsibility of the candidate for a degree in February, May, or August to make formal application for the degree in writing to the Dean at least four weeks before graduation.

Honors

A student who earns from 3.50 to 3.74 times as many quality points as semester hours will be graduated with the distinction of "cum laude;" from 3.75 to 3.89, with the distinction of "magna cum laude;" and above 3.90, with the distinction of "summa cum laude."

To be eligible for honors, a transfer student must have a quality point-credit ratio on his total record and on his record at Elizabethtown College of not less than 3.50 and must have earned not less than 60 semester hours credit at Elizabethtown College. However, in determining the honor, only grades earned at Elizabethtown College will be used.

A dean's honor list is published each quarter for regular students. A student whose quality point-credit ratio is 3.50 or above during any quarter is eligible for Dean's List honors.

Absences

Regular and punctual attendance at all classes and laboratory periods is expected of all students.

Absences will be dealt with separately in each course. Students are permitted two cuts per credit in each course during the semester. It is urged that these cuts be utilized by students for valid reasons only. Should a student exceed the permitted number of absences, he must present to the instructor acceptable excuses for all absences. In case such excuses are unsatisfactory to the instructor the student will automatically receive a grade no higher than "D" for the course in question unless the instructor recommends otherwise.

Absences incurred on account of the illness of the student, the death of a relative, duty away from college as an official representative of the institution, or approved field trips are considered as

excused absences if the student has incurred more than his permitted number of cuts during the course of the semester. Illness is recognized as such only upon a physician's signature.

Absences immediately preceding and immediately following catalogued vacations will be counted double.

For examinations given at times other than those regularly scheduled, students will be charged $1.00 per semester hour, and for missed final examinations $2.00 per semester hour will be charged except in cases of illness. Missed examinations will be given only with the permission of the Dean and the instructor involved.

CURRICULA

Bachelor of Arts

The course in Liberal Arts has for its objective a comprehension of the meaning of life and the development of an appreciation of its beauty. It emphasizes cultural values.

The curriculum is also planned as a prerequisite for any of the learned professions or for later specialization in graduate study. The Liberal Arts degree is generally considered as preparation for librarians, journalists, lawyers, social workers, teachers and others.

The Ministry

The American Association of Theological Schools has adopted the following standard of requirements as a minimum list of fields of study with which a student should have acquaintance before beginning study in a seminary:

Basal:	
English—Composition and Literature	8–12 S. H.
Philosophy	4– 6 S. H.
At least two of the following:	
History of Philosophy	3 S. H.
Ethics	3 S. H.
History	4– 6 S. H.
Psychology	2– 3 S. H.
At least one of the following:	
Latin, French, German, Spanish	12–16 S. H.
Natural Sciences—Physical or Biological	4– 6 S. H.
Social Sciences	4– 6 S. H.

Pre-Legal Preparation

On March 15, 1928, the Supreme Court of Pennsylvania approved the recommendation of the State Board of Law Examiners to place Elizabethtown College upon the list of colleges, degrees from which are accepted for registration in lieu of preliminary examination. The course in Liberal Arts as outlined meets the pre-legal requirements of the State Board of Law Examiners.

The College recommends that the student who plans to enter the legal profession should follow a course leading to the Bachelor of Arts degree. This will make possible the election of courses in economics, business law, accounting, sociology, history, English, speech and other subjects.

It is also possible for graduates with the Bachelor of Science degree, particularly with a major in Business Administration, to meet all the requirements for entrance to law schools. Such students should select their elective courses carefully in order to obtain as broad a background as possible.

Social Work

Students who desire to qualify as professional social workers should complete a four-year college course, and should have in addition at least one year of postgraduate work in an approved school of social work. Preferably, they should take the full two-year course in a school of social work, leading to the master's degree.

Students who wish to prepare for this field of study should follow the program as outlined for the Bachelor of Arts degree and should elect biology and arrange for at least 18 semester hours in sociology.

Requirements for the Bachelor of Arts Degree

		Semester hours 1st Sem.	2d Sem.
	Freshman Year		
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
	Language	3	3
	Mathematics	3	3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Total	16	16
	Sophomore Year		
	Economics or Sociology	3	3
En20ab or En45ab	Survey of English Literature or World Literature	3	3
Hi20a, 21b, 22a, 23b	European History (Any two courses)	3	3
	Language	3	3
PE20ab	Physical Education	1	1
	Science	4	4
	Total	17	17
	Junior Year		
	Bible		2
En38a	Speech	2	
Hi30ab	History of the United States and Pennsylvania	3	3
	Literature	2	2
	Electives including requirements for major	9	9
	Total	16	16
	Senior Year		
Ph41a	Ethics	3	
Ph41b	History of Philosophy		3
PS41b	American National Government		3
	Electives including requirements for major	12	9
	Total	15	15

Students preparing to teach are required to complete 136 semester hours including a minimum of 18 semester hours in education as follows: Introduction to Education (3), Educational Psychology (3), Principles and Methods of Secondary Education (5), Visual Education (1), Practice Teaching (6).

The language requirement in the freshman and sophomore years purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Requirements for the Bachelor of Arts Degree

Major in Bible and Philosophy

	Freshman Year	*Semester hours* 1st sem.	2d sem.
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
	Language	3	3
	Mathematics	3	3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Total	16	16
	Sophomore Year		
	Christian Education		3
En20ab or 45ab	Survey of English Literature or World Literature	3	3
Hi20a, 21b, 22a, 23b	European History (Any two courses)	3	3
	Language	3	3
PE20ab	Physical Education	1	1
Ph41a	Ethics	3	
	Science	4	4
	Total	17	17
	Junior Year		
En38a	Speech	2	
	History and/or Political Science	3	3
	Literature	2 or 3	2 or 3
Ph41b	History of Philosophy	3	
	Social Science	3	3–6
	Departmental Electives	2–4	3–6
	Total	15–18	15–18
	Senior Year		
Ph42ab	Seminar in Philosophy and Religion	3	or 3 (or both)
	Social Science	3–6	3–6
	Departmental Electives	3–6	3–6
	General Electives	3–6	3–6
	Total	15–18	15–18

At least sixteen hours are to be elected in the social sciences, with upper level courses in at least one area.

All electives are to be chosen with the approval of the faculty counselor.

The language requirement in the freshman and sophomore years purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Bachelor of Science

Biological and Physical Sciences and Mathematics

These courses permit opportunities for specialization in the fields of biology, chemistry, and mathematics. They are designed for students who plan to enter graduate school, who wish to prepare to teach in the fields of science and mathematics, or who are looking forward to entrance upon the study of medicine, dentistry, pharmacy, engineering, or other scientific pursuits. The curricula are planned so that a student may obtain undergraduate training necessary for graduate work in biology, chemistry, and mathematics.

Students who expect to take up graduate work in science should consult the department head of the field in which they expect to do their graduate work to determine what courses are required as the necessary undergraduate preparation.

The Healing Arts

The field of healing arts includes medicine, dentistry, osteopathy, veterinary medicine, nursing and laboratory technology.

In view of the fact that leading schools of medicine, dentistry, and osteopathy have many more applicants for admission than they can accommodate, it is evident that no student should plan to enter with only the minimum requirements. It is strongly urged that all students who contemplate entering any of these fields take the full four years of the course in pre-medical sciences as outlined. It is rare that the College recommends anyone who does not meet the requirements for a degree.

The following courses meet the minimum requirements as set forth by the Council on Medical Education and Hospitals:

Required subjects:

Biology	8 S. H.
Chemistry	12 S. H.
Physics	8 S. H.
English Composition	6 S. H.
Non-science subjects not including English	12 S. H.

Subjects strongly urged:

A modern foreign language	6-12 S. H.
Advanced botany or zoology	3- 6 S. H.
Psychology or logic	3- 6 S. H.
Adv. math., including algebra and trigonometry	3- 6 S. H.

Other suggested electives:

English, economics, history, sociology, political science, mathematics, Latin, physical chemistry.

These requirements will also meet the demands for entrance upon the study of dentistry, osteopathy, and veterinary medicine. The pre-medical sciences curriculum prepares the student for entrance into most schools in the healing arts. However, students are urged to acquaint themselves with the requirements of the specific institutions they expect to enter.

Medical Technology

Students preparing for this vocation need to complete a minimum of 90 semester hours in college and pursue a twelve to eighteen month study in an approved hospital.

A student who completes the three year curriculum outlined for the field of medical technology will be granted a B.S. degree upon the completion of the training program as outlined by an approved hospital and upon meeting the certifying requirements of the Board of Registry of Medical Technologists.

The curriculum preparing students for medical technology in cooperation with accredited hospitals has been approved by the Board of Registry of Medical Technologists, American Society of Clinical Pathologists.

Nursing

In order to help meet the need for professional nurses trained beyond the minimum requirements, Elizabethtown College offers the degree, Bachelor of Science in Nursing. Students in this program will complete two years of work at Elizabethtown College. Upon the completion of a three-year nursing course in an accredited school of nursing and the passing of a state board examination for the R.N. degree, students may apply for the B.S. degree as indicated. Although individuals contemplating this five-year program are encouraged to complete their college work before entering a school of nursing, graduate nurses will receive full consideration for admission to college upon satisfying admission requirements.

Pre-engineering

Elizabethtown College offers a co-operative program in engineering whereby a student may achieve a degree in liberal arts from Elizabethtown College and also an engineering degree from The Pennsylvania State University.

The three-two year plan is designed to give the engineering student three years of undergraduate work in engineering at Elizabethtown College to be followed by two years at the cooperating institution. Upon the successful completion of the five-year program, the student will receive the two above named degrees.

Curriculums which Elizabethtown students will be qualified to enter at Penn State include aeronautical, civil, electrical, industrial, mechanical and sanitary engineering.

In order to be eligible for admission into the Pennsylvania State University, the student must be recommended by Elizabethtown College. The student will have the help of an adviser so that he may be properly guided toward the achievement of his goal.

Pre-engineering students interested in admission to universities other than The Pennsylvania State University should confer with the Dean in order to make proper arrangements with the school of their choice.

Pre-forestry

Elizabethtown College in cooperation with the School of Forestry, Duke University, offers a five-year program leading to a Master's Degree in Forestry.

A three-year program at Elizabethtown College is followed by a summer-and-two-year's course in the School of Forestry, Duke University. The curriculum at Elizabethtown College is prescribed to meet the prerequisites for the forestry phase of the five-year program.

Because of the high academic demands for graduate work essential to this course, a student who does not have a quality point-credit ratio of 2.0 by the end of his freshman year, and of 2.25 by the end of his sophomore year, should not continue in it.

Requirements for the Bachelor of Science Degree

Major in Biology

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Bio10a-b	General Biology	4	4
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
	Language	3	3
	Mathematics	3	3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Total	18	18
	Sophomore Year		
	Biology	4	4
Ch10a-b	General Inorganic Chemistry	4	4
En20ab or 45ab	Survey of English Literature or World Literature	3	3
	Language	3	3
	Mathematics	3	3
PE20ab	Physical Education	1	1
	Total	18	18
	Junior Year		
Bi10ab	Survey of Biblical History	2	2
	Biology	3	3
	History and/or Political Science*	3	3
	Economics or Sociology	3	3
	Electives	4	3
	Total	15	14
	Senior Year		
	Bible	2	
	Biology	4	
En38a	Speech	2	
	History or Political Science*		3
Ph41a	Ethics		3
Ph41b	History of Philosophy	3	
	Electives	3	8
	Total	14	14

Students preparing to teach are required to complete 136 semester hours including a minimum of 18 semester hours in education as follows: Introduction to Education (3), Educational Psychology (3), Principles and Methods in Secondary Education (5), Visual Education (1), Practice Teaching (6).

* Every student is required to complete at least 3 semester hours in American History or Government. Teachers are required to take Hi30a or b History of the United States and Pennsylvania.

The language requirement in the freshman and sophomore years purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Requirements for the Bachelor of Science Degree

Major in Chemistry *

		Semester hours 1st Sem.	2d Sem.
	Freshman Year		
Ch10a-b	General Inorganic Chemistry	4	4
En10a-b	English Composition	3	3
	Language	3	3
Ma14a-b	Mathematical Analysis	5	5
	Electives	3	3
	Total	18	18
	Sophomore Year		
Ch20a	Qualitative Analysis	5	
Ch25b	Quantitative Analysis		5
	Language	3	3
Ma20a-b	Calculus	4	4
Phy20a-b	General Physics	4	4
	Electives	2	2
	Total	18	18
	Junior Year		
Ch30a-b	Organic Chemistry	4	4
	Electives	14	14
	Total	18	18
	Senior Year		
Ch44a-b	Physical Chemistry	4	4
	Electives	14	14
	Total	18	18

* This constitutes a minimum major and will be approved when electives are taken to complete one of the following situations:

a. Secondary education certification.

b. Pre-medical preparation including Biology 10a-b, Biology 30, Biology 40b, and Biology 43b.

c. A.C.S. standards including Chemistry 41, 45, 46, and German 20ab.

The following must be elected:

Survey of English Literature or World Literature	6 hours
Bible	6 hours
History (including Hi30a or b or PS41b)	6 hours
Physical Education	4 hours

Ten semester hours must be elected in these fields:

Psychology	Economics
Philosophy	Ethics
Sociology	

The language requirement in the freshman and sophomore years purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Requirements for the Bachelor of Science and Liberal Arts Degrees

Major in Engineering

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Ch10a-b	General Inorganic Chemistry	4	4
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
Ma14a-b	Mathematical Analysis	5	5
PE10ab	Physical Education	1	1
Phy17ab	Drawing and Descriptive Geometry	2	2
	Total	17	17
	Sophomore Year		
BA20a	Introduction to Economics	3	
Bi10b	Survey of Biblical History		2
En20ab or 45ab	Survey of English Literature or World Literature	3	3
En38a	Speech		2
	Language	3	3
Ma20a-b	Calculus	4	4
PE20a	Physical Education	1	
Phy21a	Mechanics	4	
Phy22b	Heat and Sound		4
	Total	18	18
	Junior Year		
Bi10a	Survey of Biblical History	2	
Hi31a or 30b	Economic History of the United States or History of the U. S. and Penna.		3
	Language	3	3
Ma32a	Differential Equations	3	
PE20b	Physical Education		1
Phy30a	Electricity and Magnetism	4	
Phy31b	Optics		4
Phy40a	Statics	3	
Phy41b	Dynamics		3
Ps10a-b	General Psychology	2	2
	Total	17	16

The fourth and fifth years must be satisfactorily completed in the field of engineering at Pennsylvania State University. Upon successfully completing the five-year program, the student will be eligible to receive the Bachelor of Arts degree from Elizabethtown College and the Bachelor of Science degree from Pennsylvania State University.

Freshman Engineering students must provide themselves with an acceptable slide rule and a drawing kit. These items are available in the college bookstore.

The language requirement in the sophomore and junior years purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Requirements for the Bachelor of Science Degree

Major in Forestry

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Bi10ab	Survey of Biblical History	2	2
Ch15a-b	Elementary College Chemistry	4	4
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
Ma11a	College Algebra	3	
Ma12b	Trigonometry		3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Total	17	17
	Sophomore Year		
BA20a and 21b	Introduction to Economics and Advanced Economics**	3	3
Bio10a-b	General Biology	4	4
En20ab or 45ab	Survey of English Literature or World Literature	3	3
	History*	3	3
	Language	3	3
PE20ab	Physical Education	1	1
	Total	17	17
	Junior Year		
Bio23b	Plant Biology		4
	Language	3	3
Ph41a	Ethics	3	
Ph41b	History of Philosophy		3
Phy20a-b	General Physics	4	4
PS41b	American National Government		3
So10a	Introduction to Sociology	3	
	Electives	5	
	Total	18	17

* To be selected in agreement with the adviser.

** Both are recommended. BA20a is required.

The language requirement in the sophomore and junior years purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Summer following Junior Year and Senior Year

The fourth year is to be completed in the School of Forestry, Duke University. Upon the satisfactory completion of the course at the end of the fourth year and the successful passing of the examinations in this course, the student will receive the Bachelor of Science degree in the field of Forestry.

The student will then continue his fifth year of training in the School of Forestry, Duke University. Upon the satisfactory completion of the fifth year, he will be awarded the professional degree, Master of Forestry.

Requirements for the Bachelor of Science Degree

Major in Mathematics

	Freshman Year	*Semester hours* 1st sem.	2d sem.
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
	Language	3	3
Ma14a-b	Mathematical Analysis	5	5
PE10ab	Physical Education	1	1
	Total	16	16
	Sophomore Year		
En20ab or En45ab	Survey of English Literature or World Literature	3	3
	Language	3	3
Ma20a-b	Calculus	4	4
PE20ab	Physical Education	1	1
	Science	4	4
	Social Science	2 or 3	2 or 3
	Total	17 or 18	17 or 18
	Junior Year		
Ma30a-b	Linear Algebra	2	2
Ma31a	Differential Equations	3	
Ma32b	Partial Differential Equations		3
	Science	4 or 5	4 or 5
	Social Science including one course in History or Political Science	3	3
	Electives	3	3
	Total	15 or 16	15 or 16
	Senior Year		
Ma33b	Mathematical Statistics		3
Ma40a	Advanced Calculus	3	
Ph41a or 41b	Ethics or History of Philosophy	3	
	Science		4
	Electives	9	8
	Total	15	15

Students obtaining secondary education certification are required to have a total of 33 hours of mathematics, but only six hours need be in courses with Calculus as a prerequisite.

Students may elect Ma11a, Ma12b, and Ma13b, instead of Ma14a-b.

All electives must be approved by the faculty adviser.

At least one course beyond a survey course must be elected in science.

At least three semester hours of the social science electives must be in courses for which a survey course is a prerequisite.

The language requirement in the freshman and sophomore years purports to give the student reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

The major in mathematics may be earned with a liberal arts degree by substituting history and English credits for the twelve to fourteen hours of science required in the junior and senior years.

Requirements for the Bachelor of Science Degree

Major in Medical Technology

		Semester hours 1st Sem.	1d Sem.
	Freshman Year		
Bio10a-b	General Biology	4	4
Ch10a-b	General Inorganic Chemistry	4	4
En10a-b	English Composition	3	3
Ma11a	College Algebra	3	
Ma12b	Trigonometry		3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
Total		17	17
	Sophomore Year		
Bi10ab	Survey of Biblical History	2	2
Bio41b	Microbiology		4
Bio43a	Histological Technique	4	
Ch20a	Qualitative Analysis	5	
Ch25b	Quantitative Analysis		5
En20ab or 45ab	Survey of English Literature or World Literature	3	3
Hi10ab	History of Western Civilization	2	2
PE20ab	Physical Education	1	1
Total		17	17
	Junior Year		
Ch30a-b	Organic Chemistry	4	4
	History and/or Political Science (including Hi30a or b or PS41b)	3	6
Ph41a	Ethics	3	
Ph41b	History of Philosophy		3
Phy20a-b	General Physics	4	4
Total		14	17

The fourth year is to be completed in an accredited school of training in Medical Technology. Upon the completion of such a course and the successful passing of the Registry Examination for medical technologists the Bachelor of Science degree will be conferred by Elizabethtown College.

Requirements for the Bachelor of Science Degree

Major in Nursing

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Bi10ab	Survey of Biblical History	2	2
Bio10a-b	General Biology	4	4
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
Ma10a or 11a	Basic Mathematics or College Algebra	3	
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
So10a	Introduction to Sociology		3
	Total	17	17
	Sophomore Year		
Ch15a-b	Elementary College Chemistry	4	4
En20ab or 45ab	Survey of English Literature or World Literature	3	3
	History and/or Political Science (including Hi30a or b or PS41b	3	3
Ph41a or 41b	Ethics or History of Philosophy	3	
	Social Science	3	3
	Electives		3
	Total	16	16

Upon the satisfactory completion of the two-year college course and the three-year nursing course at an approved nurses' training school, and the passing of a state board examination for the R.N. degree, the student will be eligible for the Bachelor of Science degree from Elizabethtown College.

Requirements for the Bachelor of Science Degree

Major in Pre-medical Sciences

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Bi10ab	Survey of Biblical History	2	2
Ch10a-b	General Inorganic Chemistry	4	4
En10a-b	English Composition	3	3
Ma14a-b	Mathematical Analysis	5	5
PE10ab	Physical Education	1	1
	Social Science* or Language	2 or 3	2 or 3
	Total	17 or 18	17 or 18
	Sophomore Year		
Bio10a-b	General Biology	4	4
Ch20a	Qualitative Analysis	5	
Ch25b	Quantitative Analysis		5
En20ab	Survey of English Literature or World Literature	3	3
	Language or Mathematics**	3 or 4	3 or 4
PE20ab	Physical Education	1	1
	Total	16 or 17	16 or 17
	Junior Year		
Bio30a	Comparative Anatomy	4	
Bio40b	Mammalian Anatomy		3
Ch30a-b	Organic Chemistry	4	4
Phy20a-b	General Physics	4	4
	Language or Social Science	3	3
	Social Science	2 or 3	2 or 3
	Total	17 or 18	16 or 17
	Senior Year		
Bio43a	Histological Technique	4	
Bio42a	Embryology	4	
	Language or Social Science	3	3
Ph41a or 41b	Ethics or History of Philosophy		3
	Social Science	3	
	Electives#	2 or 4	10 or 12
	Total	16 or 18	16 or 18

* Social Science includes courses, in sequence, listed under history and political science, psychology and sociology. At least three hours are required in History of the United States and Pennsylvania, American National Government, or other Political Science.

** Calculus must be elected in the sophomore or junior year if Physical Chemistry is anticipated.

Physical Chemistry is recommended.

Completion of the second college year of a language is required. The language requirement purports to give the student a reading proficiency in a foreign language. It may be fulfilled with the completion of two years of high school language and the second college year in the same language.

Teaching

Elizabethtown College is approved by the Department of Public Instruction of the Commonwealth of Pennsylvania for the preparation of teachers in the following fields:

Business Education	Secondary Education
Elementary Education	Special Education

Provisional College Certificate

Elementary School Teachers

The provisional college certificate is issued to an applicant who has completed an approved four-year teacher educational curriculum in the elementary field and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania. The course must include Introduction to Education, Educational Psychology, Elementary School Art, Elementary School Music, Health and Hygiene, plus additional courses to make a total of thirty hours in professional education.

The Bachelor of Science in Education degree with a major in Elementary Education meets all the stated requirements. A student, by careful planning, may also meet the requirements in the Bachelor of Arts degree program.

Elementary teacher certification requirements of other states may also be met at Elizabethtown College.

Secondary School Teachers of Academic Subjects

The provisional college certificate is issued to an applicant who has completed an approved four-year teacher education curriculum and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania.

This certificate is based on the completion of eighteen or more semester hours of approved professional courses as follows: Introduction to Education, Educational Psychology, Student Teaching, and electives to be chosen from courses definitely related to teaching in the secondary schools. The Bachelor of Science in Education degree with a major in Secondary Education meets all these requirements. A student may also meet these requirements with the Bachelor of Arts and Bachelor of Science degrees.

In consultation with his adviser the student should familiarize himself with the specific subject matter requirements for the field in which he wishes to teach.

Special Education

Students may be certified for teaching the mentally handicapped by receiving regular certification and including the following courses:

Psychology of Exceptional Children
Child Psychology
Mental Hygiene
Student Teaching in Special Education (1 hr.)
Arts and Crafts for Special Classes
Special Class Methods

Requirements for the Bachelor of Science in Education Degree

Major in Elementary Education

		Semester hours 1st Sem.	2d Sem.
	Freshman Year		
Bi10ab	Survey of Biblical History	2	2
Ed10b	Introduction to Education		3
Ed15b	Teaching of Geography		3
Ed23b	Public School Music		2
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
Mu13a	Music Fundamentals	2	
PE10ab	Physical Education	1	1
Phy10a	Physical Science	3	
Ps10a-b	General Psychology	2	2
	Electives	3	
	Total	18	18
	Sophomore Year		
	Bible	2	
Bio10a-b	General Biology	4	4
Ed21b	Curriculum in Arithmetic		3
Ed26ab	Teaching of Health and Hygiene	2	2
Ed27ab	Teaching of Public School Art	2	2
En20ab or 45ab	Survey of English Literature or World Literature	3	3
PE20ab	Physical Education	1	1
Ps22b	Child Psychology		3
	Electives	2	
	Total	16	18
	Junior Year		
Ed30a	Educational Psychology	3	
Ed32b	Visual Education		2
Ed35ab	Teaching of Language Arts	3	3
Ed37b	Curriculum in Science		3
Ed38b	Educational Measurements*	3	
En38a	Speech	2	
En39b	Children's Literature		3
Hi30ab	History of the United States and Pennsylvania	3	3
Ph41a	Ethics		3
So10a	Introduction to Sociology	3	
	Total	17	17
	Senior Year		
Ed41a	Principles of Elementary Education	2	
Ed42a	Professional Practicum and School Law	2	
Ed43a	Practice Teaching	8	
Ed44b	History of Education*		3
Ph41b	History of Philosophy		3
PS41b	American National Government		3
	Electives	3	8
	Total	15	17

* Either Ed38b or Ed44b is required.

Requirements for the Bachelor of Science in Education Degree

Major in Secondary Education

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Ed10b	Introduction to Education		3
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
	Mathematics or Language	3	3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Science*	4	4
	Electives	2 or 3	
	Total	17 or 18	18
	Sophomore Year		
Bi10ab	Survey of Biblical History	2	2
En20ab	Survey of English Literature	3	3
PE20ab	Physical Education	1	1
So10a	Introduction to Sociology	3	
	(Elect from field of interest for total of 16 to 18 s.h.)		
BA20a	Introduction to Economics (for certification in Social Studies)	3	
	European History (for certification in Social Studies or History)	3	3
	Language (for certification in Language)	3	3
	Mathematics (for certification in Mathematics)	3	3
	Science (for certification in the Sciences)	4	4
	Junior Year		
Ed30a	Educational Psychology	3	
Ed31ab	Principles and Practices of Secondary Education	3	3
Ed32b	Visual Education		2
En38a	Speech	2	
Hi30ab	History of the United States and Pennsylvania	3	3
Ph41a	Ethics		3
	(Elect from field of interest for total of 16 to 18 s.h.)		
	English (for certification in English)	3	3
	Language (for certification in Language)	3	3
	Mathematics (for certification in Mathematics)	3	3
	Science (for certification in Science)	4	4

* A student who wishes to be certified to teach two languages should begin both in the Freshman year and elect Science in the Sophomore year.

	Senior Year	*Semester hours* 1st Sem.	2d Sem.
	Bible		2
Ed38b	Educational Measurements*		3
Ed42a	Professional Practicum and School Law	2	
Ed43a	Practice Teaching	8	
Ed44b	History of Education*	3	
Ph41b	History of Philosophy		3
PS41b	American National Government		3
	Electives to complete total of 136 s.h. required for graduation		

* Either Ed38b or Ed44b is required.

Department of Business

The Department of Business offers the following fields:

Business Administration
Business Administration—Accounting Major
Business Education—Teaching
Secretarial Science
  Two-year certificate course in secretarial science
  Two-year certificate course in medical secretarial science

The purpose of the curricula in Business is to provide students with basic methods of analysis and intellectual understanding so that they can clearly express a problem, formulate a plan of solution, and then verify the result to the end that society will benefit. Therefore stress is placed on the fundamental methodology of accounting, economics, finance, mathematics and human relations. All students of Business who receive a basic core of professional courses in business administration should be able to succeed in their chosen field. No student, however, is permitted to devote himself exclusively to business subjects, but must become acquainted with the cultural, scientific and humanitarian aspects of the world. Hence a balanced course is planned.

Business Administration

The curriculum in business administration gives training in the fundamentals of business that will enable the student to obtain an intelligent understanding of the principles of business. It provides for an analysis of business and industrial facts, and for training in the ability to think through problems with which he will be confronted in later life.

A student planning to major in accounting will begin this subject in his freshman year and continue it in its various phases through his senior year. The indispensable courses in corporation finance, in money and banking, and in business law are begun in the junior year. Thus, by following the program as outlined the student will obtain adequate training in accounting, without sacrificing general training.

A student planning to enter the managerial phase of business will include in his program courses in business law, marketing, accounting, salesmanship, and business statistics.

Requirements for the Bachelor of Science Degree

Major in Accounting

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Ac11a-b	Principles of Accounting	3	3
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
Ma10a or 11a	Basic Mathematics or College Algebra	3	
Ma15b or 16b	Mathematics of Business or Mathematics of Finance		3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Total	16	16
	Sophomore Year		
Ac21ab	Cost Accounting	3	3
	Bible		2
BA20a	Introduction to Economics	3	
BA21b	Advanced Economics		3
En20ab or 45ab	Survey of English Literature or World Literature	3	3
PE20ab	Physical Education	1	1
	Science	4	4
So10a	Introduction to Sociology	3	
	Total	17	16
	Junior Year		
Ac31a	Intermediate Accounting	3	
Ac31b	Advanced Accounting		3
BA30b	Money and Banking		3
BA31a	Corporation Finance	3	
BA34ab	Business Law	3	3
BA35ab	Advanced Business Law	1	1
BA36a	Introduction to Statistics	3	
BA36b	Advanced Business Statistics		3
	History	3	3
	Total	16	16
	Senior Year		
Ac41ab	Auditing	3	3
Ac42a	Tax Accounting	3	
Ac42b	CPA Problems		3
BA41b	Statement Analysis		2
BA47a	Personnel Administration	3	
BA48b	Industrial and Labor Relations		3
Ph41a	Ethics		3
PS41b	American National Government	3	
	Electives	3	2
	Total	15	16

Requirements for the Bachelor of Science Degree

Major in Business Administration

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Ac11a-b	Principles of Accounting	3	3
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
Hi10ab	History of Western Civilization	2	2
Ma10a or 11a	Basic Mathematics or College Algebra	3	
Ma15b or 16b	Mathematics of Business or Mathematics of Finance		3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Total	16	16
	Sophomore Year		
	Accounting	3	3
BA20a	Introduction to Economics	3	
BA21b	Advanced Economics		3
En20ab or 45ab	Survey of English Literature or World Literature	3	3
PE20ab	Physical Education	1	1
	Science	4	4
So10a	Introduction to Sociology	3	
	Electives		3
	Total	17	17
	Junior Year		
BA34ab	Business Law	3	3
BA36a	Introduction to Statistics	3	
BA36b	Advanced Business Statistics		3
	Bible		2
	History	3	3
	Electives	6	6
	Total	15	17
	Senior Year		
BA46a	Economic Geography	3	
BA46b	World Resources and Industries		3
BA47a	Personnel Administration	3	
BA48b	Industrial and Labor Relations		3
Ph41a	Ethics		3
PS41b	American National Government	3	
	Electives	6	6
	Total	15	15

Business Education—Teaching

Elizabethtown College, a pioneer in the State of Pennsylvania in its program of business teaching training, offers a curriculum leading to certification in this field.

In order to obtain the Provisional College Certificate issued by the State of Pennsylvania the applicant must be a graduate of an approved college or university and must have successfully completed a course in Pennsylvania History and eighteen semester hours in education which are fulfilled through the following courses at Elizabethtown College:

Ed10b	Introduction to Education	3 S. H.
Ed30a	Educational Psychology	3 S. H.
Ed42a	Professional Practicum and School Law	2 S. H.
Ed43a	Practice Teaching (in Business Education)	8 S. H.
Ed44a or 31b	Methods and Principles of Business Education or Principles and Practices of Secondary Education	3 S. H.

Business subjects are written on the certificate on the satisfactory completion of the minimum number of semester hours in several subjects as indicated below:

Bookkeeping and Accounting	12 S. H.
Commercial or Economic Geography	6 S. H.
Commercial Law	6 S. H.
Commercial Arithmetic	3 S. H.
Office Practice	3 S. H.
Salesmanship	3 S. H.
Shorthand	9 S. H.
Typewriting	6 S. H.
Junior Business Training	3 S. H.
Economics	6 S. H.
Retail Selling	12 S. H.

Business English requires: (a) Twelve semester hours in English, plus (b) not less than two semester hours in Business English or Correspondence.

Requirements for the Bachelor of Science in Education Degree

Major in Business Education

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Ac11a-b	Principles of Accounting	3	3
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
Ma10a or 11a	Basic Mathematics or College Algebra	3	
Ma15b or 16b	Mathematics of Business or Mathematics of Finance		3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
	Science	4	4
Total		18	18
	Sophomore Year		
Ac25b	Personal Income Tax Accounting		3
Ac31a	Intermediate Accounting	3	
	Bible	2	
BA20a	Introduction to Economics	3	
BA21b	Advanced Economics		3
Ed10b	Introduction to Education		3
En20ab or 45ab	Survey of English Literature or World Literature	3	3
PE20ab	Physical Education	1	1
OPTION A			
SS10a-b	Elementary Gregg Shorthand*	3	3
SS12a-b	Elementary Typewriting*	2	2
OPTION B			
	Electives in Business	5	5
Total		17	18
	Junior Year		
BA34ab	Business Law	3	3
Ed30a	Educational Psychology	3	
Hi30ab	History of the United States and Pennsylvania	3	3
Ph41a	Ethics		3
SS25a	Office Machine Practice	2	
SS27b	Business Correspondence		3
OPTION A			
SS22a	Advanced Typewriting	2	
SS23ab	Advanced Gregg Shorthand	3	3
SS26b	Secretarial Office Practice		2
OPTION B			
BA46a	Economic Geography	3	
BA46b	World Resources and Industries		3
	Electives in Business	3	2 or 3
Total		17 or 18	17 or 18

* Students who have had shorthand and typewriting before coming to college, and who pass an examination for advanced standing, may elect other subjects.

Senior Year

Ed32b	Visual Education		2
Ed42a	Professional Practicum and School Law	2	
Ed43a	Practice Teaching	8	
Ed44a	Methods and Principles of Business Education	3	
Ph41b	History of Philosophy		3
PS41b	American National Government		3
	Electives	3	6
Total		16	14

Students desiring to teach Shorthand and Typing in secondary schools should select Option A, those desiring to teach business subjects other than Shorthand and Typing should select Option B.

Medical Secretarial Science

An increasing demand for specially trained persons to act as secretaries for physicians, dentists, hospitals, and laboratories, has led Elizabethtown College to incorporate such training into its Business Department.

Although such work is so highly specialized that a four-year college course is most desirable for those planning to enter this profession, provision is made for those who feel they can give but two years to their training, to complete in that time work which will enable them to obtain positions as medical secretaries.

At the end of the two-year program in Medical Secretarial Science, a student desiring to complete a four-year degree curriculum can do so without loss of credits already earned. In two additional years the student can earn the degree of Bachelor of Science in Business Education and be qualified to teach in the secondary schools of the state.

Requirements for the Certificate in Medical Secretarial Science

		Semester hours	
	Freshman Year	*1st Sem.*	*2d Sem.*
Ac10a-b	Accounting for Secretaries	3	3
Bio10a-b	General Biology	4	4
En10a-b	English Composition	3	3
PE10ab	Physical Education	1	1
SS10a-b	Elementary Gregg Shorthand*	3	3
SS12a-b	Elementary Typewriting*	2	2
SS15ab	Medical Secretarial Techniques	2	2
	Total	18	18
	Sophomore Year		
Bi10ab	Survey of Biblical History	2	2
Ch15a-b	Elementary College Chemistry	4	4
Ps10a-b	General Psychology	2	2
SS22a	Advanced Typewriting	2	
SS23a-b	Advanced Gregg Shorthand	3	
SS24b	Medical Shorthand		3
SS26b	Secretarial Office Practice		2
SS27b	Business Correspondence		3
SS28a	Office Nursing and Laboratory Techniques	3	
	Total	16	16

* Students who have had shorthand and typewriting before coming to college, and who pass an examination for advanced standing, may elect other subjects.

Secretarial Science

A college trained secretary who has acquired a business and technical training along with some liberal arts courses, and who has a vital, gripping interest in what is happening in the complex business world, has an unexcelled opportunity to become a trusted confidential associate in business. The demand for such qualified secretaries is constantly increasing.

The basic purpose of the curriculum in secretarial science at Elizabethtown College is to provide the student with cultural as well as technical courses. The two-year program leads to a certificate in Secretarial Science. Students who have had shorthand and typewriting before entering college and who pass an examination for advanced standing may elect other subjects.

At the end of the two-year program in Secretarial Science, a student desiring to complete a four-year degree curriculum can do so without loss of credits already earned. In two additional years the student can earn the degree of Bachelor of Science in Business Education and be qualified to teach in the secondary schools of the state.

Requirements for the Certificate in Secretarial Science

	Freshman Year	*Semester hours* 1st Sem.	2d Sem.
Ac10a-b	Accounting for Secretaries	3	3
Bi10ab	Survey of Biblical History	2	2
En10a-b	English Composition	3	3
PE10ab	Physical Education	1	1
Ps10a-b	General Psychology	2	2
SS10a-b	Elementary Gregg Shorthand*	3	3
SS12a-b	Elementary Typewriting*	2	2
	Total	16	16
	Sophomore Year		
BA20a	Introduction to Economics	3	
En20ab or 45ab	Survey of English Literature or World Literature	3	3
Ma10a or 11a	Basic Mathematics or College Algebra	3	
Ma15b or 17b	Mathematics of Business or Mathematics of Finance		3
SS22a	Advanced Typewriting	2	
SS23a-b	Advanced Gregg Shorthand	3	3
SS25a	Office Machine Practice	2	
SS26b	Secretarial Office Practice		2
SS27b	Business Correspondence		3
	Electives		3
	Total	16	17

* Students who have had shorthand and typewriting before coming to college, and who pass an examination for advanced standing, may elect other subjects.

Curriculum for Church Leadership Training

Upon completion of the following program, a student may receive from the Christian Education Commission of the General Brotherhood Board of the Church of the Brethren a College Level Leadership Training Certificate:

Required Courses:

	Hours
Bible	6
General Psychology	3
Educational Psychology	3
Principles and Administration of Christian Education	3
Audio-Visual Education	2

Elective Courses:

Six semester hours chosen from among the following courses: Philosophy of Religion, Philosophy of the Christian Religion, Great Christian Doctrines, History of the Christian Church, History of the Church of the Brethren, Child Psychology, Social Psychology, Psychology of Religion, History of Religion.

Required Experience:

One year's experience in church school work, while in college, under the supervision of capable leadership.

Opportunity for Summer Study

Elizabethtown College conducts two five-week summer sessions.

Summer sessions are organized for students who for urgent reasons wish to devote their summers to study. In each term a student may enroll for two three-semester-hour courses. It is possible for a student to earn twelve semester hours of credit toward a degree by attending both sessions. In three full summers a student may complete the equivalent of a year's work.

Part-time Campus Courses

Teachers-in-service and others who can qualify for entrance into college may enroll for courses for which there may be a sufficient demand to justify the organization of a class.

Evening classes are organized for persons who find it possible to carry on further preparation during their spare time. Such part-time campus study may be counted as fulfilling residence requirements at the rate of one week per semester hour of credit earned.

A program of adult education is provided for those who wish to become more efficient in their jobs or wish to take courses for their practical or cultural value. Courses in any of the areas listed in this catalog will be offered depending upon demand.

Short-unit courses may be mapped out for those who wish to prepare within a very limited time for some specific type of work. This may be done on a credit or non-credit basis, again depending upon the demand.

Anyone interested in any of the above plans should write to the Dean of Instruction.

Harrisburg Area Center for Higher Education

In cooperation with the Pennsylvania State University, Temple University, the University of Pennsylvania, and Lebanon Valley College, Elizabethtown College offers accredited college level courses in Harrisburg through the Harrisburg Area Center for Higher Education. Late afternoon, evening, and Saturday classes are available at the John Harris High School, Market and Hale Streets, Harrisburg, Pennsylvania. Students interested in course offerings should contact the Center Office, 204 Dauphin Building, Harrisburg, Pennsylvania; telephone, CEdar 2-8083.

Courses of Instruction

In the designation of courses of study, the numbers 10, 20, 30, and 40 represent the four years: namely, Freshman, Sophomore, Junior, and Senior respectively. The letter "a" signifies the work of the first semester and "b" the work of the second semester. The letters "ab" affixed to course numbers represent year courses. A hyphen between the letters "a" and "b" indicates that the first semester of a course is prerequisite to the second semester.

Bible and Philosophy

ASSOCIATE PROFESSOR BYERLY, ASSISTANT PROFESSORS SNOWDEN AND ZEIGLER, AND MISS MARTIN

A. Bible

Bi10ab Survey of Biblical History—The aim of this course is to acquaint the student in a general way with the Bible as a whole. It is a foundation course for subsequent study of the Bible as the inspired word of God.

Two hours per week *4 credits*

Bi20a Old Testament Literature—In this course, the student is introduced to Old Testament literature. A brief study of the different literary types of Old Testament books is followed by a study of selections from the three main kinds of Hebrew literature—the Psalms, Wisdom Literature, and Prophetic Literature.

Prerequisite: Bi10ab

Two hours per week *2 credits*

Bi23b History of the Christian Church—This course is a survey of the Christian Church starting with the First Century and ending with a brief study of present day trends and movements within the Church. The development of Christian thought as well as a study of historical incidents will be included in the scope of the course.

Prerequisite: Bi10ab

Three hours per week *3 credits*

Bi25a Psychology of Religion—A study of the origin and growth of religion in the life of the individual. Prayer, conversion, worship and other religious experiences are considered.

Prerequisite: Bi10ab

Two hours per week *2 credits*

Bi30a The Teachings of Jesus—A brief survey is made of the times in which Jesus lived. Many of His teachings are studied in the light of their context and of their application to daily life.
Prerequisite: Bi10ab
Two hours per week *2 credits*

Bi34a Comparative Religions—This course is an introductory study of the major religions of the world. Specific attention is given to the origin, characteristics, and contributions of these religions as studied against our background of Christianity.
Prerequisite: Bi10ab
Three hours per week *3 credits*

Bi40a The Christian Faith—This is an introduction to the basic Biblical doctrines of the Christian religion. The central doctrines of the Bible are studied; such as God, man, sin, Christ and the Church.
Prerequisite: Bi10ab
Three hours per week *3 credits*

B. Christian Education

CE10a Principles and Administration of Christian Education—An effort will be made to apply the fundamentals of religious education to problems arising in the home, and to methods of work in the Church, the school, the Sunday School, and to other means used in the community for the Christian education of children and adults.
Prerequisite: Bi10ab
Three hours per week *3 credits*

CE33b History and Program of the Church of the Brethren—This course is designed to acquaint students with the historical background of the Church of the Brethren and to give them a comprehensive view of the present program of the church. Lectures, discussion, special assignments and projects will be utilized. Field trips will be regular parts of the course. Guest speakers, representing different phases of the church program, will contribute to the course.
Three hours per week *3 credits*

C. Philosophy

Ph41a Ethics—The purpose of this course is to introduce the student to the historical types of Christian and Western philosophical ethics. An effort is also made to relate this material to the contemporary situation.
Prerequisite: Bi10ab
Three hours per week *3 credits*

Ph41b History of Philosophy—This course is an introduction to the different types of Western philosophical thought. This study is focused on six representative philosophers.
Prerequisite: Bi10ab
Three hours per week *3 credits*

Ph42a Logic—The aim of this course is to acquaint the student with the deductive and the inductive methods of logic, both classical and contemporary.
Prerequisite: Bi10ab
Three hours per week *3 credits*

Ph42b Aesthetics—This is a study of the various theories of aesthetics. The student will be introduced to these theories by readings in primary source material.
Prerequisite: Bi10ab
Two hours per week *2 credits*

Ph45ab Seminar in Philosophy and Religion—An intensive study of a special area of inquiry within the fields of Philosophy and Religion. The first semester will be in Philosophy and the second in Religion. Extensive reading will be required.
Prerequisite: 10 semester hours in Bible and Philosophy and permission of the instructor
Two hours per week *2 credits*
By appointment

Biology

PROFESSORS CHARLES APGAR AND BESSIE APGAR
AND DR. CHARLES WEAVER

Bio10a-b General Biology—This is a study of the science of life, its concepts and principles attained through the study of the structure, function and life histories of representative animals and plants. It must be taken as a one-year course.
Three hours recitation and two hours laboratory per week *8 credits*
Laboratory fee, $8.00 per semester

Medical Secretarial Techniques—(See Secretarial Science 15ab).

Office Nursing and Laboratory Techniques—(See Secretarial Science 28a).

Bio23b Plant Biology—Basic studies in the field of Botany as a foundation for the advanced study of plant life.
Laboratory fee, $8.00
Prerequisite: Bio10a-b
Two hours lecture and four hours laboratory per week *4 credits*

Bio30a Comparative Anatomy of Vertebrates—This course deals with a detailed comparative study of the morphology of vertebrate organ systems in representative species.
Prerequisite: Bio10a-b, Laboratory fee, $8.00
Two hours lecture and four hours laboratory per week *4 credits*

Bio31a General Physiology—This deals with the basic elements that make the machinery of the body function. It shows the purpose of anatomy. The laboratory includes the performance of selected problems in relation to the lecture material.
Laboratory fee, $8.00
Prerequisite: Bio10a-b, Ch10a-b, Bio30a
Two hours recitation and two hours laboratory per week *3 credits*

Bio40b Mammalian Anatomy—Comprehensive anatomy of the domestic cat.
Laboratory fee, $10.00 plus cost of cat
Prerequisite: Bio10a-b
One hour lecture and four hours laboratory per week *3 credits*

Bio41b Microbiology—This course introduces the student to the general principles and techniques of the study of microörganisms. The history and development of Bacteriology and its concept of disease, hygiene, and industrial uses are covered. The laboratory work includes the preparation of media, the culture of bacteria, the staining and study of the organism, and specific problems.
Laboratory fee, $10.00
Prerequisite: Bio10a-b and Ch10a-b
Two hours lecture and four hours laboratory per week *4 credits*

Bio42a Embryology—This is a study of the comparative vertebrate development from the fertilized egg to the formation of the principal organs of the body, and the histological differentiation of the tissues.
Laboratory fee, $10.00
Prerequisite: Bio10a-b and 43a
Two hours recitation and four hours laboratory per week *4 credits*

Bio43a Histological Technique—This course gives the student basic training in the preparation of plant and animal tissue for study under the microscope. From killing the specimen and selecting the tissue to the final labeling and storing of the slides, the student pursues an exacting technique.
Laboratory fee, $10.00
Prerequisite: Bio10a-b and Ch10a-b
Two hours lecture and four hours laboratory per week *4 credits*

Bio43b Histology—The study of cells as organized into the tissues and organs of representative vertebrates.
Prerequisite: Bio31a, 40b and 43a
Laboratory fee, $8.00
One hour lecture and four hours laboratory per week *3 credits*

Bio48 Techniques in Biology—Offered to acquaint the prospective teacher and graduate student with some of the methods relative to preparing demonstrations, collecting and preserving materials and related techniques.
Prerequisite: Not less than 16 credits in Biology and permission of the instructor
By appointment
Laboratory fees and credits variable

Bio49 Special Problems in Biology—Designed to acquaint the advanced student with the problems involved in individual work.
Prerequisite: Not less than 16 credits in Biology and permission of the instructor
By appointment
Laboratory fees and credits variable

Business

PROFESSOR GRAY, ASSOCIATE PROFESSOR SWINEBROAD, ASSISTANT PROFESSORS BITTING, EASTLACK, CLARENCE ENTERLINE, AND WILBUR WEAVER, AND MR. BOWERS AND MR. GINGRICH

Accounting

Ac10a-b Accounting for Secretaries—This course is designed to meet the special needs of students enrolled in the secretarial courses. Emphasis is placed upon record keeping and bookkeeping for service type businesses and professional employers.
Two hours lecture and two hours laboratory per week *6 credits*

Ac11a-b Principles of Accounting—Includes a thorough study of the principles of debit and credit; analysis and the use of journals and ledgers; financial statements; controlling accounts and subsidiary ledgers; voucher system; partnership formation, operation and dissolution; corporation formation records, accounts, stocks and bonds; departmental accountings; and branch accounting. Problems and a practice set will be used to illustrate the principles.
Two hours lecture and two hours laboratory per week *6 credits*

Ac21ab Cost Accounting—This course is designed to give thorough study to accounting for a manufacturing concern. In the first semester emphasis will be placed upon the elements of cost and their use in job-order and process cost systems. The second semester will be devoted to cost control by management. Various tools used are budgets, standard costs, reports, break-even analysis. An introduction to direct costing will also be presented. Two practice sets—one on the job-order system and the other on standard costs—will be used.

Prerequisite: Ac11a-b

Two hours lecture and two hours laboratory per week *6 credits*

Ac25a Introduction to Cost Accounting—This course includes a survey of the elements of costs, their application in job order and process cost accounting systems. Adoption of standard costs completes this course. A practice set and problems are used to illustrate the principles.

Prerequisite: Ac11a-b

Two hours lecture and two hours laboratory per week *3 credits*

Ac25b Personal Income Tax Accounting—This survey course covers problems in preparation of individual income tax returns. Encompassed in this course is a study of what constitutes income and expense, and where they are properly reported upon the forms. Tax saving devices as they pertain to individuals concludes this course. Problems will be presented to be worked on the actual tax forms.

Prerequisite: Ac11a-b

Two hours lecture and two hours laboratory per week *3 credits*

Ac31a Intermediate Accounting—A thorough study is made of the use, composition and variations of accounting methods in connection with the following accounts: cash, receivables, inventories, fixed assets and valuation accounts, investments, and liabilities. Consideration of the prevailing accounting theories in determining net income and the use of fund statements completes this course.

Prerequisite: Ac11a-b

Three hours lecture per week *3 credits*

Ac31b Advanced Accounting—A detailed study of accounting for partnerships and corporations is made. Also included are various methods of closing the books, clean surplus theory, comparative statements, analysis of working capital, insurance, installment sales, and an introduction into accounting for consolidations.

Prerequisite: Ac31a

Three hours lecture per week *3 credits*

Ac41ab Auditing—This course includes an extensive analysis of the responsibilities and work of an auditor, the purpose and kinds of audits, preparatory analysis and considerations, systems of internal check, consolidated statements, auditors' reports, investigations, and auditors' certificates. An audit case problem will be completed.
Prerequisite: Ac31ab
Three hours lecture per week *6 credits*

Ac42a Tax Accounting—Advanced students will study the important provisions of the Federal Tax law pertaining to individuals, partnerships and corporations, using illustrative examples, selected questions and problems, and the preparation of returns.
Prerequisite: Ac31ab
Three hours lecture per week *3 credits*

Ac42b C.P.A. Problems—A course designed especially for students of advanced accounting who are planning to take state examinations for qualification as Certified Public Accountants.
Prerequisite: Ac31ab
Three hours lecture per week *3 credits*

Business Administration and Business Education

Basic Mathematics—(See Mathematics 10a).

Mathematics of Business—(See Mathematics 15b).

Mathematics of Finance—(See Mathematics 16b).

BA20a Introduction to Economics—A beginning course in the principles and problems of economics including discussions on production, monopoly, public finance, national income, money, banking, business cycles: macroeconomics.
Three hours per week *3 credits*

BA21b Advanced Economics—This is a course in microeconomics with emphasis upon value, price, supply and demand, wages, rent, interest and profits.
Prerequisite: BA20a
Three hours per week *3 credits*

BA25b Marketing—The work of the course emphasizes the meaning and importance of marketing distribution and cites leading examples of commodity marketing. Transportation as it is related to marketing, storage, standardization and grading, the services performed by brokers, sales agents, auctions, wholesalers and different types of retailers, as well as cooperative marketing, trade associations, and fair competition are considered.
Three hours per week *3 credits*

BA30b Money and Banking—This course provides a general understanding of the monetary system and the credit and banking system of the United States. Emphasis is placed on the Federal Reserve System, government fiscal policy, debt management, credit control and other monetary problems.
Three hours per week *3 credits*

BA31a Corporation Finance—The aim of this course is to provide an understanding of the nature and development of the corporate form of business enterprise. The characteristics of the various types of securities, the part played by each type in the capital structure of the corporation, and the manner of issuance and sale will be considered, as will the growing importance of the corporation as a form of business organization.
Three hours per week *3 credits*

BA32a Office Management—American business practices today reveal the increased importance of effective office management. The course is designed to introduce the student to some of the current practices including layout, work flow, forms control, correspondence, work simplification, equipment and the selection and training of office employees.
Three hours per week *3 credits*

BA34ab Business Law—This is a course in the law of business and its administration. It includes a study of the general principles of the law of contract, including formation, operation, interpretation, and discharge of contracts; and of agency, employer and employee, negotiable instruments, suretyship, and insurance. The last half of the course will deal with bailments, carriers, sales, partnership, corporations, property, deeds of conveyance, mortgages, torts, and business crimes.
Three hours per week *6 credits*

BA35ab Advanced Business Law—The emphasis of this course is upon the principles of law as they apply to the field of accounting. Cases will be studied and typical C.P.A. law problems will be reviewed. Students majoring in accounting are urged to take this course in the semesters they are enrolled in BA34ab.
One hour per week *2 credits*

BA36a Introduction to Statistics—The viewpoint of the businessman is kept in mind, since the objective of the course is to train the student to use statistics in the analysis of business problems. The subject matter covers elementary theory, presentation and analysis of statistics in business, collection and presentation of statistical data, tabulation, graphs, frequency curves, dispersions, sampling and probability.
Fee, $4.00
Prerequisite: 1 year of college mathematics
Three hours per week *3 credits*

BA36b Advanced Business Statistics—This course includes the methodology of time series analysis including the trend, the cyclical fluctuations and the seasonal variation; the methods of correlation analysis.
Fee, $4.00
Prerequisite: BA36a
Three hours per week *3 credits*

BA37a Comparative Economic Systems—This course is offered to advanced students of economics who are able to examine, criticize and appraise alternative economic systems. Lectures, discussions and research will center on capitalism, socialism and communism and on mixed economic systems.
Prerequisite: BA21b
Two hours per week *2 credits*

BA41b Statement Analysis—This is an advanced course that unifies some of the work of corporation finance and advanced accounting with an emphasis upon the practical problems of the analysis of financial statements.
Prerequisite: Ac31ab and BA31b
Two hours per week *2 credits*

Economic History of the United States—(See History 31a).

BA42a Advertising—The fundamental principles of advertising are studied. The relation of advertising to business is stressed, and a general survey is made of the entire field of advertising procedure from the inception of the advertising idea to the completion of the advertisement and the selection of media.
Three hours per week *3 credits*

BA42b Business Research Thesis—This course is offered in order to give seniors an opportunity to engage in independent study and research on a problem or topic in the field of business. Guidance will be given by the student's major professor. Copies of the thesis must also be acceptable for inclusion in the College library.
By appointment *3 credits*

BA43b Salesmanship—This course deals with the principles of personal salesmanship including preparation for and obtaining the interview; constructing and presenting the sales talk; steps in making and closing the sales; prospecting; and techniques used in selling. Numerous sales demonstrations and talks are given by the students. Practical problems are presented for solution.
Three hours per week *3 credits*

BA46a Economic Geography—The relation of climate and topography to human economic activity will be studied. Land forms of the world, climate regions and agriculture are the major topics of this course.

Three hours per week *3 credits*

BA46b World Resources and Industries—This course studies the location and utilization of minerals around the world and analyzes the economic aspects of the major industries of the United States.

Three hours per week *3 credits*

BA47a Personnel Administration—The case method of study is used in this course so that the student can examine actual personnel situations as they occur in industry. Cases discussed involve problems in absenteeism, incentives, wage differences, grievance, promotions, personality adjustments, communications and executive development.

Three hours per week *3 credits*

BA48b Industrial and Labor Relations—The course includes an evaluation of the historical development of the union movement and the collective bargaining process. A study is made of union-management relationships, of procedures for the alleviation of tension, alternatives to force, and of the role of government participation and control for the realization of industrial peace.

Three hours per week *3 credits*

BA49b Economic Problems—Lectures and discussions are concerned with the application of economic principles to such problems as inflation and deflation, full employment, economic stagnation, credit control, monopolies, and controlled economies.

Prerequisite: BA21b

Three hours per week *3 credits*

Secretarial Science and Business Education

SS10a-b Elementary Gregg Shorthand—This is the elementary division of an intensive study of shorthand in which emphasis is placed upon theory application, phrasing, dictation of connected matter, reading from shorthand plates, vocabulary building, and upon the dictation and transcription of new material at varying rates of speed.

Three hours per week *6 credits*

SS12a-b Elementary Typewriting—The aim of this course is to train the student in fundamental typewriting technique. Machine operation, keyboard technique, frequent word drills, letter forms, tabulations, manuscript set-up, the preparation of business and legal papers, speed and accuracy building will constitute the program.

Fee, $10.00 per semester

Four hours per week *4 credits*

SS15ab Medical Secretarial Techniques—This is a specialized course that prepares a secretary to render efficient, useful service to physicians, dentists and hospitals. Among the subjects included are medical economics, medical ethics, medical accounts and records, terminology of case histories, clinical reports, autopsy protocols and insurance forms.

Two hours per week *4 credits*

SS22a Advanced Typewriting—The aim of this course is to develop typists who meet the test that business gives them; namely, rapid production of commercially acceptable and mailable copy.

Fee, $10.00

Three hours per week *2 credits*

SS23a-b Advanced Gregg Shorthand—This course consists of dictation and transcription with a thorough review of shorthand theory. Through dictation and transcription covering a wide range of businesses, the student develops the vocabulary, speed, and accuracy demanded in business and professional offices. Special emphasis is given to shorthand penmanship, and to vocabulary and advanced phrase building.

Three hours per week *6 credits*

SS24b Medical Shorthand—This course is designed to familiarize students with the highly specialized technical vocabulary used in the medical professions. Both dictation and transcription of Gregg Shorthand will be used.

Three hours per week *3 credits*

SS25a Office Machine Practice—Instruction and practice in the use of modern office machines such as Comptometers, the Sundstrand, the Burroughs, the Monroe and the Friden, stencil and liquid duplicators, the electric typewriter.

Fee, $8.00

Three hours per week *2 credits*

SS26b Secretarial Office Practice—Secretarial duties common to all fields of business are considered. Through lectures, research assignments, job sheets, and laboratory exercises the student becomes familiar with modern office practice. Special

attention is given to filing, handling of mail, editing and proof reading, duties of the receptionist, the study of business ethics and the use of reference books.
Fee, $4.00
Prerequisite: SS10ab
Three hours per week *2 credits*

SS27b Business Correspondence—Effective communication of ideas and information in the modern business world is the aim of this course. Such conveyors of messages as the letter, the report, the advertisement, and inquiry forms—such as the interview and the questionnaire—are studied. A study of the mechanics of correct and effective English usage is also made.
Three hours per week *3 credits*

SS28a Office Nursing and Laboratory Technique—This course is designed to acquaint the student with the nursing problems found in a physician's office and with clinical laboratory methods. Instruction is given in medical history taking, preparation for examinations and treatment, preparation and care of office instruments and supplies, bandaging, handling emergencies, giving hypodermics, and other nursing procedures. Urinalysis and blood counting are taught as well as the techniques for determining coagulation rate, bleeding time, sedimentation rate, and blood sugar.
Fee, $10.00
Two hours lecture and two hours laboratory per week *3 credits*

Chemistry

PROFESSORS STAMBAUGH, BAUGHER, AND BERKEBILE,
MISS PROCTOR AND MR. HERTZOG

Ch10a-b General Inorganic Chemistry—This course considers the fundamental laws and principles of chemistry as well as a thorough study of the elements. It is to be taken by those students who will continue with further courses in chemistry.
Prerequisite: High School Algebra
Laboratory fee, $10.00 per semester
Three hours lecture and recitation and three hours laboratory per week *8 credits*

Ch15a-b Elementary College Chemistry—This course is similar to Chemistry 10a-b in content. It may be taken by Liberal Arts, Education, and other students desiring a terminal course in chemistry.
Laboratory fee, $10.00 per semester
Three hours lecture and recitation and two hours laboratory per week *8 credits*

Ch20a Qualitative Analysis—In this course a study is made of the systematic separation and detection of all the common metals and acid radicals. The work covers the theory of qualitative analysis, laboratory analyses and chemical calculations.
Prerequisite: Ch10ab and Ma11a or equivalent. Laboratory fee, $15.00
Three hours recitation and six hours laboratory per week *5 credits*

Ch25b Quantitative Analysis—A study of the methods and principles of quantitative analysis, including gravimetric, volumetric and colorimetric determinations of alloys, ores, limestone, and commercial products is made.
Prerequisite: Ch20a. Laboratory fee, $12.50
Three hours recitation and six hours laboratory per week *5 credits*

Ch30a-b Organic Chemistry—Carbon compounds including both aliphatic and aromatic hydrocarbon derivatives and type reactions are carefully studied. The source and importance of organic compounds prominent in industry are treated. Special stress is laid upon meeting the needs of the premedical student.
Prerequisite: Ch10a-b, 20a and 25b. Laboratory fee, $12.50 per semester
Three hours recitation and three hours laboratory per week *8 credits*

Ch41a Advanced Quantitative Analysis—This course is designed to meet the requirements of the individual student. Work may be elected by the student from the following fields: ferrous or nonferrous alloys, rock, food, feed, fertilizer, paints, petroleum, and others for analysis. Commercial samples will be used for the analysis.
Prerequisite: Ch25b. Laboratory fee, $12.50
Two hours lecture and a minimum of eight hours laboratory per week *4 credits*

Ch44a-b Physical Chemistry—This course is an expansion and coordination of previous courses as related to the physical states of matter, solutions, homogeneous and heterogeneous, equilibria, thermodynamics, and the interrelationship of these quantities through mathematics. Laboratory work is designed to emphasize the application of physical measurements to the solutions of chemical problems.
Prerequisites: Ch20a, 25b, 30a-b, Ma20a-b, Phy20a-b
Laboratory fee, $10.00 per semester
Three hours lecture and a minimum of three hours laboratory per week *8 credits*

Ch45a Qualitative Organic Analysis—A study is made of the properties of functional groups of organic compounds. Application of these principles is used in the identification of pure organic compounds and of mixtures of organic compounds.
Laboratory fee, $12.50
Prerequisite: Ch30a-b
Two hours recitation and eight hours laboratory per week *4 credits*

Ch46b Problems in Organic Chemistry—This course is designed to acquaint the student with the problems of organic synthesis and organic quantitative analysis.

Laboratory fee, $12.50

Prerequisite: Ch30a-b

Two hours recitation and conference and ten hours laboratory per week *4 credits*

Education

ASSOCIATE PROFESSOR HOOVER, PROFESSORS FISHER AND STUMP, ASSISTANT PROFESSORS FELLENBAUM AND MILDRED ENTERLINE, AND MISS RISSER AND MRS. SHEELY

Ed10b Introduction to Education—This course deals with the study of American Schools. It considers European antecedents and then leads to a consideration of educational changes in the United States, control and support of education, organization of schools, the teacher, methods of teaching, scientific study of education, and the recent developments in modern education.

Three hours per week *3 credits*

Ed15b Teaching of Geography—This is a general course given from the standpoint of man's reaction to his environment; the course aims to coordinate fundamental principles of geography. A study is made of the objectives, content, and methods of teaching geography. Students get practice in developing units, projects, maps, graphs, tests, etc. Workbooks, textbooks, and supplementary materials are reviewed and evaluated.

Three hours per week *3 credits*

Ed21b Curriculum in Arithmetic—This course includes the mastery of the fundamentals of the subject matter of arithmetic in grades 1 to 8, inclusive, together with the application of the fundamental psychological principles in teaching the subject and an acquaintance with materials of instruction and textbooks.

Three hours per week *3 credits*

Ed23b Public School Music—This course deals with educational principles and their application to the teaching of music, and with methods and materials to be used in the elementary schools. It aims to prepare the prospective elementary teacher to meet specific problems of music instruction in the grades. Included in the course are the study of rote singing, note reading, the child voice, music appreciation, and related topics.

Prerequisite: Mu13a

Two hours per week *2 credits*

Ed25b Teaching of Secondary Mathematics—This course begins with the study of the slide rule, and continues with discussions of methods of instruction, curricular tendencies, supplementary materials, and objectives of Junior and Senior High School mathematics. A portion of the course will be devoted to a study of the historical background of mathematics.
Three hours per week *3 credits*

Ed26ab Teaching of Health and Hygiene—This course stresses personal health in the teacher and an interest in and knowledge of all points of school hygiene. Necessary health information and methods of teaching health are presented. The teacher's responsibility for the formation of proper habits and control of the environment is stressed.
Two hours per week *4 credits*

Ed27ab Teaching of Public School Art—The aim of this course is to enable students to teach public school art. It includes drawing, the elementary principles of design, lettering, composition, and color harmony and their application to home, school and community interests.
Fee, variable
Two hours per week *4 credits*

Ed30a Educational Psychology—The original nature of man, the laws of learning, and individual differences are the main concepts emphasized in this course. This is a fundamental course and is required of all third year students in education who expect to secure the provisional college certificate in education.
Prerequisite: Ps10ab
Three hours per week *3 credits*

Ed31ab Principles and Practices of Secondary Education—The course includes a study of the fundamental principles o secondary education, the problems of teaching, learning activities, organization of courses of instruction and units, methods of planning and organizing classroom activities, and evaluating the outcomes. Practice will be given in constructing lesson plans and demonstration teaching.
Three hours per week *6 credits*

Ed32b Visual Education—This course is designed to present the fundamental principles of visual and sensory aids to be used in the schoolroom. The various types and techniques will be studied and applied to definite subject matter.
Fee, $8.00
Two hours lecture and one hour laboratory per week *2 credits*

Ed33a Special Class Methods—A course organized to meet the methods and needs of teachers of special education. Includes a workshop study of planning and organizing curricular materials of instruction for the primary, the intermediate, and the advanced maturational levels. This is a required course for certification for teaching in special classes.

Three hours per week *3 credits*

Ed34ab Arts and Crafts for Special Classes—Especially organized to meet the needs of teachers of special education. Instruction will be given in the development of the child with crafts from the very simple to more advanced methods in woodwork; plastic; cork; weaving; paper; novelties; leather; use of salvage material; household repairs and clay modeling.

Laboratory fee, variable

Three hours per week *6 credits*

Ed35ab Teaching of Language Arts in the Elementary School—The first semester is concerned with methods and practice in teaching reading, grades one to six. The second semester includes the study and practice of methods in teaching oral and written composition, manuscript and cursive writing, phonics and spelling.

Prerequisite: En20ab

Three hours per week *6 credits*

Laboratory fee, $2.50 per semester

Ed36a Teaching of the Social Studies—This course is designed to acquaint the prospective teacher of the social studies in elementary and secondary schools with current methods, literature and visual aids in this field.

Three hours per week *3 credits*

Ed37b Curriculum in Science—This course is a study of many of the fundamental facts, principles and laws that every prospective teacher should know in order to understand and interpret nature study, health, and geography, so that he may be able to make this work applicable to the everyday life of the child and give the child an acquaintance with the materials that are part of his environment.

Three hours per week *3 credits*

Ed38b Educational Measurements—This course aims to acquaint the young teacher with some of the better known educatonal tests and give him sufficient knowledge of statistics to use them intelligently.

Fee, $3.00

Three hours per week *3 credits*

Ed39b Educational Guidance—The history, principles, problems, procedures, organization, administration, and supervision of educational and vocational guidance are covered. The importance of guidance and personnel service in secondary schools and on other educational levels is stressed.
Three hours per week *3 credits*

Ed40b The Elementary School Curriculum—An opportunity for qualified students to develop a practical curriculum. A study is made of the many problems encountered in making up courses of study in selected fields. Implementation is made of Bulletin 233B to note the newer elementary school curriculum practices.
Three hours per week *3 credits*

Ed41a Principles of Elementary Education—This course gives the origin, aims, curricula, and principles underlying the practices of the American elementary school.
Four hours per week for eight weeks *2 credits*

Ed42a Professional Practicum Including School Law—This course is designed to prepare students for their practice teaching. Techniques of teaching and lesson planning for the student's special field are considered. Pennsylvania school laws relevant to the work of the classroom teacher are studied. Observations are made of various classroom procedures.
Four hours per week for eight weeks *2 credits*

Ed43a Practice Teaching—This course includes observation, participation, and practice teaching. The work is carried on in the public schools the second eight weeks of the first semester. Special attention is given to lesson plans, classroom technique, discipline and measuring results. Conference discussions are held at least twice a week. The student is required to achiev- an average grade of *C* in any field in which he wishes to do practice teaching.
Prerequisites: Secondary—Ed31ab and 42a
Elementary—Ed35ab and 42a
(The student teacher is required to provide for his own transportation)
Fee, $60.00
Sixteen hours per week *8 credits*

Ed44a Methods and Principles of Business Education—This includes a thorough consideration of the methods of teaching the business subjects on the high school level—particularly the fundamental ones of bookkeeping, shorthand, and typewriting, as well as the related subjects. Stress will be placed upon curriculum materials, their selection and adaptation. A study of tests and measurements in the commercial field will be made.
Three hours per week *3 credits*

Ed44b History of Education—An analysis of the history of education from the time of early Greek education to the present day is made. Special attention will be given to the aims, content, organization, and results of the educational systems of various countries, as well as to the great leaders of educational thought.

Three hours per week *3 credits*

Ed45a Special Class Teaching—Observation, classroom teaching, and conferences in special education, with supervisors for a period of one semester.

By appointment

Fee, $30.00, including tuition *1 credit*

Ed45b Problems in Secondary Education—Designed primarily for in-service teachers, this course considers the newer practices and techniques in secondary education. Individual and group problems arising in the field of secondary education are studied.

Three hours per week *3 credits*

Ed46a Educational Sociology—This course presents sociological facts which have especial educational implications. They include community life and personality contacts and adjustments.

Three hours per week *3 credits*

Ed46b Philosophy of Education—This course deals with the nature of knowledge and the theories of great thinkers and educators as to what the final goals of education should be and the methods by which they may be attained. The material provides the background from which a student can formulate his philosophy of education.

Three hours per week *3 credits*

Ed47a Special Class Teaching, Orthopedically Handicapped—Observation, classroom teaching, and conferences apropos of the education of physically handicapped children.

Fee, $30.00, including tuition

Ed47b Safety Education—A course covering the history and development of safety education, the psychology of accident prevention, materials on driver education, sports education, industrial safety techniques, and evaluating and measuring results of safety education.

Three hours per week *3 credits*

Ed48a Teaching Physical Education in the Elementary School—This course is concerned with the program of physical education activities for the elementary school. It includes a study of small group play, large group play, directed play, rhythmic activities and team games, together with methods and procedures for conducting such a program.

Two hours lecture and two hours laboratory per week *3 credits*

Open to only Juniors and Seniors

Ed49a Problems in Elementary Education—Designed primarily for in-service teachers, this course considers the newer practices and techniques in elementary education. Individual and group problems arising in the field of elementary education are studied.

Three hours per week *3 credits*

English

Associate Professor Kelly, Professor Schlosser, Associate Professors Rahter and Hackman, Assistant Professors Mildred Enterline and Elinor Neumann, Miss Engle, and Mr. Yeingst

En10a-b English Composition—A study of the fundamentals of effective English through their practical application to oral and written themes. Individual conferences are an integral part of this course.

Three hours per week *6 credits*

En20ab Survey of English Literature—A study of selections in poetry and prose from the Anglo-Saxon period to the present time. The course aims to acquaint the student with the major movements in literature and to develop an appreciation of literature itself.

Three hours per week *6 credits*

En21a-b Journalism—This is a study of newspapers and news-values, with emphasis on effective news reporting through the analysis and writing of various news stories, editorials, and feature articles. It is designed for students who want an introduction to journalism, for *Etownian* staff members, and for prospective teachers who may need a knowledge of school publication procedures.

Three hours per week *6 credits*

En22ab American Literature—Representative authors and periods from the Colonial Period to the present will be studied. The major part of the work of the best writers will be carefully considered.

Two hours per week *4 credits*

En23ab Problems in Play Directing—This is a practical course for teachers and directors of drama in elementary and secondary schools, churches, or community theatres. It deals with general and historical techniques in directing together with modern forms of area and space staging.
Two hours per week *4 credits*

En30a The English Novel—A survey of English prose fiction from Defoe to Hardy. The novel form and its development through the eighteenth and nineteenth centuries are studied in the light of the outstanding writers in this genre.
Prerequisite: En20ab *2 credits*
Two hours per week
Offered 1961–1962

En31b The English Essay—This course is an investigation of the essay in English, both British and American, from its earliest beginnings to the present time. The form is studied particularly in the familiar and critical types to acquaint the student with the vast scale of styles and degrees of subjectivity in the essay.
Prerequisite: En20ab
Two hours per week *2 credits*
Offered 1961–1962

En32ab Shakespeare—Classroom discussions, lectures and reports on the origin and development of the English drama, together with a study of the chief plays of Shakespeare comprise the work of this course.
Prerequisite: En20ab
Two hours per week *4 credits*

En33a The Seventeenth Century—A survey of the non-dramatic literature, exclusive of the work of Milton, between the ages of Shakespeare and of Dryden. Attention is given to the intellectual, political, and religious ferment of the period and to the growth of modern science. Emphasis is placed on the prose of Bacon, Burton, and Browne and on the poetry of Donne, Jonson, and their followers.
Prerequisite: En20ab
Three hours per week *2 credits*
Offered 1960–1961

En34a Milton—The chief poetical writings of John Milton will be carefully read and analyzed. The course aims at an understanding of the political, theological, and social backgrounds of his writings. Selections from his prose works will also be studied.
Prerequisite: En20ab
Three hours per week *3 credits*
Offered 1961–1962

En35a Advanced Journalism—This course will deal with more advanced aspects of journalism with particular emphasis on copy reading and newspaper make-up.
Prerequisite: En21a-b
Two hours per week *2 credits*

En35b The Eighteenth Century—Poetry and prose of the eighteenth century, with emphasis upon the Neoclassic writers and the forerunners of the Romantic Movement.
Prerequisite: En20ab
Three hours per week *3 credits*
Offered 1961–1962

En36b Creative Writing—This course provides discussion of and practice in the more imaginative forms of composition, including fiction and poetry, with special attention to the interests of individual students.
Three hours per week *3 credits*
Offered 1961–1962

En37ab Dramatic Production—This is a course in the art of producing plays. It includes: historical background, directing and staging techniques, the first semester; costuming, lighting, and make-up, the second semester. Collateral readings and laboratory are required.
Two hours per week *4 credits*

En38a Speech—This is a study of effective speaking before groups of various types. Emphasis will be placed upon the correction of speech defects, proper articulation, poise, and interpretative reading of both prose and poetry. Drill in parliamentary procedure, speaking from notes, and preparing papers are required.
Two hours per week *2 credits*

En38b Advanced Speech—This course considers processes and techniques of effective discussion practice; skills of speaking, listening, and semantics.
Two hours per week *2 credits*

En39b Children's Literature—An interpretative and critical study of literature for children, including selected readings of verse, fables, fairy tales, legends and myths as well as modern fiction and non-fiction, and a study of illustrators and the history of writing for children.
Laboratory fee, $2.00
Three hours per week *3 credits*
Open to only Juniors and Seniors

En40a The Romantic Movement—Poetry and prose from 1786 to 1830 (after a preliminary examination of the "pre-romantic movement"), with the major emphasis upon Burns, Wordsworth, Coleridge, Lamb, DeQuincey, Shelley, Byron, Keats, and Hazlitt.
Prerequisite: En20ab
Three hours per week *3 credits*
Offered 1960–1961

En41b Victorian Poetry—A study of Victorian poetry from Tennyson to Kipling. Emphasis is placed on the intellectual and social backgrounds of this period.
Prerequisite: En20ab
Three hours per week *3 credits*
Offered 1960–1961

42ab Modern Drama—A study of the major European and American dramatists from Ibsen to the present.
Prerequisite: En20ab
Two hours per week *4 credits*
Offered 1961–1962

En43a Contemporary Poetry—This course considers the chief American and British poets since 1914. Their philosophy of life and criticism of present day problems are investigated and discussed.
Prerequisite: En20ab
Three hours per week *3 credits*
Offered 1960–1961

En44ab Contemporary Novel—American, British, and Continental novels of the present century are the material of the course. Representative novelists from the leading Western national cultures will be read and discussed, and their relation to modern thought and literature will be considered.
Prerequisite: En20ab
Two hours per week *4 credits*
Offered 1960–1961

En45ab World Literature—A study of a selected group of writings from Eastern and Western cultures and their relation to our present world.
Three hours per week *6 credits*

En46b American Short Story—A study of the short story as a form in American Literature from Irving to the present time.
Prerequisite: En20ab or En22ab
Three hours per week *3 credits*
Offered 1960–1961

Foreign Languages

PROFESSOR FREDERICK NEUMANN, ASSISTANT PROFESSOR ELINOR NEUMANN, AND MRS. HERR

Esperanto *

Es10a Esperanto—Esperanto is an international language and is much easier to learn than the average national language which it does not supplant. It is spoken in more than fifty-five countries and by businessmen, scholars, missionaries, and travellers all over the world. It helps essentially to solve the problems of international understanding.

Grammar, reading, and conversation are practiced with the methodical use of records. Correspondence with foreign countries can be started before the course is completed. The course can be finished in one semester after which the student may receive a diploma issued by the Esperanto Association of North America.

Three hours per week *3 credits*

Offered 1961–1962

French

Fr10a-b First Year French—This course is designed for students beginning French in college. Grammar, reading and dictation are stressed.

Three hours per week *6 credits*

Fr20ab Second Year French—This course includes a review of the essentials of grammar and the reading of at least four representative works of French literature.

Three hours per week *6 credits*

Fr30ab French Literature to 1700—Particular attention is given to such authors as Villon, the Pléiade, Rabelais, Montaigne, Malherbe, Descartes, Corneille, Pascal, Boileau, Molière, Bossuet, and Racine and to such movements as "la Préciosité" and "la Querelle des anciennes et des modernes."

Three hours per week *6 credits*

Fr40ab Eighteenth Century French Literature—A study is made of the characteristics of this century as well as Montesquieu, Voltaire, Diderot, Rousseau, and others.

Three hours per week *6 credits*

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* Does not apply toward a major in languages.

In 1951, Elizabethtown College received a gift of $15,000 from the estate of the late Emma C. E. Landes, with the stipulation that the income from this bequest be used to teach Esperanto.

German

Ge10a-b First Year German—Drill in pronunciation, the essentials of grammar, practice in speaking, writing, and translation from prose selections are stressed.
Three hours per week *6 credits*

Ge20ab Second Year German—This course includes a review of grammar and the translation of plays and novels.
Three hours per week *6 credits*

Ge30ab Third Year German—Beginnings of German literature through the Reformation and the Renaissance are studied.
Three hours per week *6 credits*

Ge40ab German Classicism and Romanticism—Emphasis will be placed on authors such as Klopstock, Lessing, Goethe, Schiller, Grillparzer, and Heine.
Three hours per week *6 credits*

Greek

Gr10ab This course is designed for students beginning Greek. The fundamental facts in grammar and reading are stressed so that the student is well prepared to read the New Testament in the Greek Language.
Three hours per week *6 credits*

Spanish

Sp10a-b First Year Spanish—Careful drill in grammar and reading comprises the work of this course.
Three hours per week *6 credits*

Sp20ab Second Year Spanish—Emphasis is laid on rapid reading of modern prose and advanced composition.
Three hours per week *6 credits*

Sp30ab Spanish Literature to 1700—This course enables the student to read intelligently the great authors of Spain.
Three hours per week *6 credits*

Sp40ab Spanish Literature Since 1700—Classical Spanish literature and South American literature of the nineteenth and twentieth centuries.
Three hours per week *6 credits*

Geology and Surveying

PROFESSOR STAMBAUGH

Geo12b Geology—Physical Geology is a study of the evolution of the earth's crust, as revealed by the arrangement and content of the rocks. Historical Geology deals with the sequence of events of prehistorical times as revealed by a study of fossils.
Laboratory fee, $8.00
Three hours lecture and three hours laboratory per week *4 credits*

Su22a Surveying—This is an introductory course including the use of drawing instruments, map drawing, the adjustment and use of the transit, taking of field notes, computation of areas, simple farm surveying, profile leveling, and curves. Included are both classes and field work.
Prerequisite: Ma11a and Ma12b
Five hours per week *3 credits*
Laboratory fee, $7.50

History and Political Science

ASSOCIATE PROFESSOR NELSON AND ASSISTANT PROFESSOR HOOD

A. History

Hi10ab History of Western Civilization—This course is to give the student a brief survey of the development of Western civilization from its earliest beginning to the present day. The long-range movements and trends will be stressed. Other civilizations will be covered only as they influence the growth of our Western heritage. It is the aim of this course to give the student a basic knowledge of his own political, economic, social, and cultural background.
Two hours per week *4 credits*

Hi20a History of the Renaissance and Reformation—This course is a survey of the history of Europe from about 1400 to 1648. The general aim is a portrayal of the transition of European society, institutions, and thought from the Middle Ages to Modern Times. The first half of the semester will be devoted to the Renaissance and the second half to the Reformation and the Counter-Reformation.
Three hours per week *3 credits*

Hi21b The History of Europe during the 17th and 18th Centuries—The general subject of discussion will be the age of absolutism in Europe from 1648 to the French Revolution and the period of the French Revolution and Napoleon. The political and diplomatic history of the older European powers

as well as the entrance of Russia and Prussia into the stream of European history, the intellectual foundations of political and economic liberalism as a background to the 19th century, and the imperial struggles between the European powers will be emphasized.

Three hours per week *3 credits*

Hi22a Nineteenth Century Europe—The aim of this course is a portrayal of the history of Europe from the Congress of Vienna to World War I. Particular attention will be paid to the political, social, and economic history of Europe during the 19th century with a general survey of European diplomacy. General topics will be liberalism, nationalism, socialism, and the Industrial Revolution.

Three hours per week *3 credits*

Hi23b Europe during the 20th Century—Beginning with a general survey of World War I the topic of discussion will be the characterization of 20th century society. Attention will be focused on the plight of democracy, the rise of fascist and communist totalitarianism, the great depression, and the effects of both World Wars.

Three hours per week *3 credits*

Hi30ab History of the United States and Pennsylvania—This course is designed to provide the student with an introductory survey of the major developments and movements in the history of the United States. Social, cultural, political, and economic aspects will be considered. The history of Pennsylvania will be dealt with as it reflects significant trends in the history of the United States.

Three hours per week *6 credits*

Hi31a Economic History of the United States—This course is a study of the developments of American economic life from the agrarian economy of the Colonial Period to the highly complex industrial economy of the present day.

Three hours per week *3 credits*

Prerequisite: Hi30ab recommended

Offered 1961–1962

Hi32b Recent History of the United States—This course is intended to acquaint the student with the development of the United States since 1890. While designed as a general survey of the period, social, intellectual, and economic aspects will be emphasized.

Three hours per week *3 credits*

Offered 1961–1962

Hi40ab Diplomatic History of the United States—This course is a study of the major developments in the international relations of the United States. It will be conducted on a seminar basis when class size permits.
Two hours per week *4 credits*
Prerequisite: Hi30ab or the permission of the instructor
Offered 1960–1961

Hi43b European Diplomacy since the Congress of Vienna—This is a survey of the conduct of European diplomacy since the fall of Napoleon. The main emphasis will be placed on the period since 1870 in a discussion of the diplomacy leading up to both World Wars and of the peace negotiations following these wars. This course will be conducted on a seminar basis.
Three hours per week *3 credits*
Prerequisite: Hi22a or 23b or by permission of the instructor
Offered 1960–1961

Hi44b Medieval History—This course is to be a survey of the History of Europe from 300 A.D.-1500 A.D. The development and subsequent decline of medieval institutions will be covered. Emphasis will be placed on the religious, political, economic, and intellectual currents in the West and to some extent in the East. Considerable stress will be given to the development of the Christian Church, thought, and philosophy in their historic setting, and the early foundations of Modern Europe.
Three hours per week *3 credits*
Offered 1961–1962

Hi45b Senior Seminar in History—This course is designed to acquaint seniors who wish to do graduate work in history with methods of historical research and historical interpretation. Students going into secondary education who meet the prerequisties are also encouraged to enroll.
Prerequisite: 20 hours of history and the permission of the instructor
Two hours per week *2 credits*

B. Political Science

PS30a International Relations—This course is designed to acquaint the student with the theory and practice influencing the relations between states with special emphasis on the more important international organizations.
Three hours per week *3 credits*
Offered 1961–1962

PS41b American National Government—This course is a survey of the political institutions of the United States and their evolution to the present day. Special emphasis is placed on the contemporary period.
Three hours per week *3 credits*

PS42a Comparative European Governments—This course will be a survey of the political institutions of the various European states. Some consideration will be given to their historical development. Special stress will be placed on the governments of Russia, Germany, France, England, and Italy. This course will be taught on a seminar basis when class size permits.

Two hours per week *2 credits*
Prerequisite: Hi22a and 23b recommended
Offered 1960–1961

Mathematics

ASSISTANT PROFESSORS TYNDALL AND BOSSLER, MR. BYERS, AND ASSOCIATE PROFESSOR HEILMAN

Ma10a Basic Mathematics—A course for students who do not have the necessary secondary school work in mathematics to prepare them for College Algebra. Basic principles and drill are covered to prepare the student for College Algebra or Mathematics of Business.

Three hours per week *3 credits*
Not applicable toward a mathematics major.

Ma11a College Algebra—The fundamental course in college mathematics serving as a basis for further study in mathematics at various levels.

Prerequisite: Two years of high school mathematics or Ma10a
Three hours per week *3 credits*

Ma12b Trigonometry—The concepts of plane triangle solving and analytical trigonometry are presented, and the latter are stressed. This course serves as a background for further mathematics and science courses.

Prerequisite: Two years of high school mathematics or Ma10a
Three hours per week *3 credits*

Ma13b Analytic Geometry—The traditional course of coordinate geometry using algebraic methods entirely. General curve analysis is emphasized over conic sections. Foundations of three dimensional systems are laid.

Prerequisite: Ma11a and 12b
Three hours per week *3 credits*

Ma14a-b Mathematical Analysis—A modern, unified, presentation of algebra, trigonometry, analytic geometry, and introductory calculus. Analytical methods are stressed and a sound foundation is laid for further mathematics, physical science, or engineering study.

Prerequisites: Two to four years of high school mathematics or Ma10a
Five hours per week *10 credits*

Ma15b Mathematics of Business—This course covers specific elementary topics with business applications. Simple interest, bank discount, credit charges, chain discounts, logarithmic computations, and certain elementary compound interest topics are covered.

Prerequisite: Ma10a
Three hours per week *3 credits*
Closed to students who have credit for Ma11a or its equivalent.
Not applicable toward a mathematics major.

Ma16b Mathematics of Finance—Introductory phases of finance on a non-calculus level are offered here. Topics covered are simple interest, logarithmic computation, compound accumulation and present value, general annuities, certain bonds, sinking funds, and introductory life insurance and life annuities.

Prerequisite: Ma11a or permission of the instructor
Three hours per week *3 credits*

Ma17b Higher Algebra—This course continues the work in Algebra, including the topics of theory of equations, determinants, permutations and combinations, probability, and mathematical induction.

Prerequisite: Ma11a
Three hours per week *3 credits*

Ma18b Modern Geometry—This course introduces topics of modern geometry which have been developed since the time of Euclid. Construction problems and theorems will be emphasized.

Prerequisite: Ma11a with either Ma19a or 14a-b recommended
Three hours per week *3 credits*

Introduction to Statistics—(See Business Administration 36a).

Teaching of Secondary Mathematics—(See Education 25b). Not offered for mathematics credit.

Ma20a-b The Calculus—This is the classical course in the calculus with a modern approach. Both Differential and Integral Calculus are covered in the first semester. The second semester covers basic work in moments, multivariate calculus, series, differential equations, and certain applications of each of these topics.

Prerequisite: Ma14a-b or Ma11a, Ma12b, and Ma13b
Four hours per week *8 credits*

Ma30a-b Linear Algebra—A basic theoretical modern mathematics course with an undergraduate but rigorous approach.

Topics covered include vectors, matrices, theory of linear equations and coordinate transformations.
Prerequisite: Ma20a-b
Two hours per week *4 credits*

Ma31a Differential Equations—This course includes the solution of ordinary differential equations, covering first and second order equations and linear equations; and basic infinite series methods. Theory will be stressed as well as various applications in astronomy, science, and engineering.
Prerequisite: Ma20a-b
Three hours per week *3 credits*

Ma32b Partial Differential Equations—An intensive course to increase the range and scope of applications involving differential equations. Where possible, recent developments will be indicated and theory treated by modern methods.
Prerequisite: Ma31a
Three hours per week *3 credits*

Ma33b Mathematical Statistics—This course presents both the concepts and methods of elementary probability and statistics. Proofs of theorems are presented as often as possible, while applications are covered to a limited extent. A background course for intensive study at either the applied or theoretical level.
Prerequisite: Ma20a-b
Three hours per week *3 credits*

Ma40a Advanced Calculus—A rigorous course in advanced analytical methods with a modern approach in terminology and applications. Included are advanced topics in multivariate calculus, infinite series, and certain specialized functions that are basic to further study.
Prerequisites: Ma20a-b and Ma30a-b
Three hours per week *3 credits*

Music

PROFESSOR FISHER, MR. YOUNG, AND MR. KLAUSS

A. General

Mu13a Music Fundamentals—This course will acquaint the student with many of the important subdivisions of music and will deal with the elements of music and with fundamental music theory. The arts of singing, sight-reading, note writing and conducting will be developed during the semester.
Two hours per week *2 credits*

Public School Music—(See Education 23b).

Mu32a History and Appreciation of Music—The work of this course will be approached from the standpoint of understanding the musical works produced in the various historical periods; appreciation will be developed from the dual standpoint of musical enjoyment and factual information. Music will be compared and contrasted with other arts, and will be considered from the viewpoint of its appropriate place in life. Great composers and their outstanding compositions will be given special attention.

Three hours per week *3 credits*

Offered 1961–1962

Mu42b Church Music—This course aims chiefly at giving the student a practicable foundation and fundamental knowledge in the field, which will be valuable for leadership in any Protestant denomination. Some consideration of the history and theory of church music will be included in the course. Units of study will include choir and congregational conducting; multiple choirs and their function in Christian education; choir repertoire; the piano and organ in the church; the child voice, adolescent, and adult voice; hymnology and the selection of appropriate hymns; creating effective worship services; and desirable qualities of leadership for church musicians.

Two hours per week *2 credits*

Offered 1961–1962

B. Applied

Piano **Voice** **Organ**

Students in Applied Music are accepted at any stage of progress, or as beginners, and are advanced as rapidly as their ability, industry, and thoroughness will permit. In Piano and Organ, technical exercises, etudes, and Classic, Romantic and Modern pieces are indispensable elements of study at practically all times. In Voice, the problems of vocal improvement, inclusive of tone placement, breath control, range quality, volume, technique, and diction, are kept constantly in mind. Songs and arias by Classical, Romantic and Modern composers are used to develop taste, and to build a repertoire for the student which will contain music appropriate for all occasions.

In all branches of Applied Music the student is given opportunities to appear in public, and is given instruction and advice in public appearance and performance.

One private lesson and five hours practice per week *1 credit*

Ensemble

(No tuition charge. No credit unless attendance at rehearsals and public performances is satisfactory, and unless participation extends over the entire school year.)

College Choir

Three hours per week (two rehearsals) *2 credits*
Fee, $1.00 per semester

Band or Orchestra

One hour per week *1 credit*

College Chorus

One hour per week *1 credit*
Fee, $1.00 per semester

Men's and Women's College Quartettes

One hour per week *1 credit*

A maximum of 8 semester hours in Esnemble and/or Applied Music may be applied towards the A.B. or B.S. degree.

Piano and voice instruction, with one private lesson per week and five hours of practice per week, receive one semester hour credit per year. Organ instruction, with one private lesson per week and three hours of practice per week, receive one semester hour credit per year. Students desiring college credit in Applied Music for the first time should be able to sing or play at sight a composition such as a simple hymn or folk song. Music classes and Ensemble music receive credit as indicated on the preceding pages.

All students who wish to study any branch of music while in college should consult their advisers and the head of the music department during registration week.

Physical Education and Health

MR. HERR, MR. SMITH, AND MISS RISSER

PE10ab Physical Education—Instruction and practice in fundamental techniques of seasonal team, dual, and individual activities for development of basic skills, knowledge and attitudes in these activities.
Two hours per week *2 credits*

PE20ab Physical Education—Continuation of instruction and practice in seasonal activities with emphasis on advanced techniques, skills, and knowledge in these activities.
Prerequisite: PE10ab
Two hours per week *2 credits*

PE21b Camp Counseling—Instruction and practical experience in camp activities and campcraft with development of leadership in these activities and the camping program.
Laboratory fee, $2.00
Three hours per week *3 credits*
By appointment

Teaching of Health and Hygiene—(See Education 26ab).

PE23ab Administration and Coaching—Organization and management of inter-scholastic and intra-mural programs and a study of the fundamentals of the various sports, rules, methods of play, techniques, skills, and coaching methods are included in this course. Actual participation in the various sports such as soccer, basketball, baseball, tennis, and demonstration contests are required. This course is open only to juniors and seniors.

Two hours per week *4 credits*
Students participating actively in varsity sports may, at the discretion of the instructor, be excused from Physical Education classes for the duration of their participation and Physical Education credit may be received.

Physics

ASSISTANT PROFESSOR CUSTER AND MR. BYERS

Phy10a Physical Science—This survey course in Physical Science covers the fundamental principles of Astronomy, Meterology, Geology, Chemistry, and Physics using experiments for illustration. Appropriate audio-visual aids are used.
Laboratory fee, $3.00
Three hours per week *3 credits*
Open to only elementary education majors.

Phy12a-b Practical Electronics—This course is a study of resistors, capacitors, inductors, and vacuum tubes. These will be combined to form radio receivers, including radio frequency amplifiers, converters, detectors, audio amplifiers, and power supplies. The laboratory is equipped for the testing of components and circuits as to the way they operate and troubles encountered with them. The practical approach will be used.

If possible the student should provide himself with an approved set of hand tools and a vacuum tube voltmeter or multimeter. A vacuum tube voltmeter kit can be purchased and constructed during the first semester.
Two hours recitation and three hours laboratory per week *6 credits*
Laboratory fee, $12.50 per semester
Offered 1961–1962

Phy17ab Drawing and Descriptive Geometry—The object of this course will be to help the student visualize points, lines and objects, and to give him a working knowledge of modern engineering drawing. The course will include a study of reference planes, points, lines, planes, curved surfaces, revolutions, true sizes, intersections, inking, lettering, free hand sketching, dimensioning, orthographic projection, isometric drawing, auxiliary views, sections and developments. The first semester will be Engineering Drawing and the second Descriptive Geometry. Either semester may be taken for credit.
One hour lecture and five hours laboratory per week *4 credits*

Phy20a-b General Physics—The aim of this course is to give the student a clear knowledge of the general laws of physics through lectures, quizzes, and demonstrations. Numerous problems will be solved. Close correlation of class and laboratory work will be maintained.
Prerequisite: Ma11a and 12b or Ma14a-b
Laboratory fee, $10.00 per semester
Three hours recitation and two hours laboratory per week *8 credits*

Physics 21a, 22b, 30a, 31b form a group which should be taken by those students desiring a more mathematical coverage of physics than is offered in Phy 20a-b. Students majoring in chemistry or mathematics should, if possible, plan to take these courses.

Phy21a Mechanics—The course will cover elementary vectors, forces, moments, centers of gravity, linear motion, Newton's Laws, motion of projectiles, work, energy, impulse, momentum, circular motion, elasticity, harmonic motion, gravitation, surface tension, viscosity, pressure and fluid flow.
Prerequisite: Ma20a (or concurrently)
Three hours recitation and two hours laboratory per week *4 credits*
Laboratory fee, $10.00

Phy22b Heat and Sound—The first part of this course is devoted to a study of heat as it relates to temperature, thermal expansion, transfer, specific heat, fusion, vaporization, gases, entropy, humidity and an introduction to heat cycles. The last part of the semester will be a study of sound and will deal with wave motion and various other properties of sound.
Prerequisites: Phy21a and Ma20b (or concurrently)
Three hours recitation and two hours laboratory per week *4 credits*
Laboratory fee, $10.00

Phy30a Electricity and Magnetism—This is a study of electrostatics, and electromagnetics including brief studies of Coulomb's Law, Gauss's Law, Ohm's Law, Kirchhoff's Laws, measuring devices, resistors, capacitors, inductors, motors, generators, ferromagnetism, alternating currents, radiation, and electronics.
Prerequisite: Phy22b
Three hours recitation and three hours laboratory per week *4 credits*
Laboratory fee, $10.00

Phy31b Optics—This is a study of light as to its nature and propagation; mirrors, lenses, optical devices, polarization, diffraction, photometry and spectrophotometry.
Prerequisite: Phy30a
Three hours recitation and three hours laboratory per week *4 credits*
Laboratory fee, $10.00

Phy40a Statics—This is a mathematical study of forces and their action on stationary bodies, including concurrent and non-concurrent forces, couples, stresses and strains, centroids, moments of inertia, weighted cords, and centers of pressure.
Prerequisites: Ma20ab and Phy21a
Three hours per week *3 credits*

Phy41b Dynamics—This is a mathematical study of bodies in motion including velocity, acceleration, work, energy, and momentum in terms of both linear and angular motion.
Prerequisite: Phy40a
Three hours per week *3 credits*

Psychology

PROFESSOR STUMP, ASSISTANT PROFESSORS FELLENBAUM AND CLARENCE ENTERLINE AND MR. CRILL

Ps10a-b General Psychology—An introduction to the study of the mental and emotional factors that play an important role in our thinking and behavior. It is the purpose of this course to help the student understand himself as well as the similarities and differences that he finds among people. This course is a prerequisite for all other psychology courses.
Two hours per week *4 credits*

Ps20a Experimental Psychology—Experimental Psychology is a laboratory course in which the principles discussed in Psychology 10a are studied through experimentation. Problems will include visual phenomena, color preference, learning and memory, the judgment of emotions and the measurement of various personality traits. Students will take the roles of experimenter and subject. Course requirements will include experimentation, the preparation of reports and the reading of related materials.
Prerequisite: Ps10a-b
Three hours per week *3 credits*
Laboratory fee, $5.00

Ps22b Child Psychology—The general growth, maturational, and emotional aspects of the child from conception to adolescence are the chief considerations of this course.
Prerequisite: Ps10a-b
Three hours per week *3 credits*

Ps31b Psychology of Exceptional Children—An overall consideration of children who deviate from the generally accepted patterns of expected development is the concern of this course. Special attention is given to problems of the mentally superior, mentally retarded, and physically handicapped children.
Prerequisite: Ps10a-b *3 credits*
Three hours per week

Ps32b Mental Hygiene—Dynamics of personal and social adjustment and maladjustment, particularly as they relate to child and adolescent development.
Prerequisite: Ps10a-b
Three hours per week *3 credits*

Ps33b Industrial Psychology—Industrial psychology deals with the applications of psychology to industry. It covers subjects such as improvement of merit rating, reduction of accidents, solution of visual problems, increased accuracy of inspection, improvement in industrial training methods, and selection and placement of employees for the job.
Prerequisite: Ps10a-b
Three hours per week *3 credits*

Ps36b Abnormal Psychology—A course dealing principally with the defects and derangements of the human mind. An attempt is made to show the relationships that exist between the normal and the abnormal mind, to indicate the causes of mental difficulties and to acquaint the student with the progress that society is making in the treatment of the mentally ill.
Prerequisite: Ps10a-b
Three hours per week *3 credits*

Social Psychology—(See Sociology 20a).

Educational Psychology—(See Education 30a).

Ps40a Applied Psychology—This is a study of the applications of psychology in the field of human relations. It deals with such subjects as motivating human beings, learning and memory, human efficiency, individual and sex differences, personality, fields and function of advertising, personnel administration, music and morale, the public platform, writing and art, psychology applied in education and other professions, and mental hygiene.
Prerequisite: Ps10a-b
Three hours per week *3 credits*
Offered 1961–1962

Sociology

Associate Professor Vosburgh and Assistant Professor Zeigler

So10a Introduction to Sociology—A study of the group living of people, including a consideration of how social changes affect their culture and institutions. Introduction to Sociology is a prerequisite to all other sociology courses. It does not apply to a major in sociology.
Three hours per week *3 credits*

So20a Social Psychology—This course considers the origin and development of personality and its relation to social phenomena such as propaganda, public opinion, leadership, and normal and abnormal adjustments.
Three hours per week *3 credits*
Prerequisite: So10a
Offered 1960–1961

So21b Social Problems—Consideration is given to the major problems of modern society, including crime, alcoholism, mental derangement, recreation, racial tensions, etc. In general, an attempt is made to reveal the nature of the problems and to familiarize the student with what society is doing and can do about them.
Three hours per week *3 credits*
Prerequisite: So10a

So31a Rural Sociology—This course includes a consideration of the rural environment and population, rural social organization and social processes in rural society.
Three hours per week *3 credits*
Prerequisite: So10a

So32b Intergroup Relations—An analysis of intergroup relations involving racial, ethnic, and religious minorities in the United States and selected regions of the world.
Three hours per week *3 credits*
Prerequisite: So10a

So40b Criminology—Criminology deals principally with the causes of criminality, modern trends in the detection of law violators, the development of penal institutions, court procedures and programs designed to reform the criminal. Field trips related to the course will supplement the classroom instruction.
Three hours per week *3 credits*
Prerequisite: So10a
Offered 1960–1961

Educational Sociology—(See Education 46a).

So41b Community Organization—The structure and function of the community is studied together with an analysis of the individual and group relationships which exist. Emphasis is placed upon intra-group and inter-group processes in evaluating community needs and developing community resources.
Three hours per week *3 credits*
Prerequisite: So10a
Offered 1961–1962
Open to only sociology majors.

So42b Cultural Anthropology—This is a survey of the principles and findings of anthropology in comparative studies of several contemporary culture areas of the world. The course evaluates problems of personality formation in human relations, cultural disintegration and cultural stability.
Three hours per week *3 credits*
Prerequisite: So10a
Offered 1961–1962

So43a The Family—This course will begin with a comparative study of different family patterns and then continue with a functional approach to questions related to courtship, engagement, and the early years of married life.
Three hours per week *3 credits*
Prerequisite: So10a

General Information

Annual Expenses

Resident Students

The expenses for the year are covered by a fee which includes tuition, class dues, alumni membership, use of the library, gymnasium, athletic field, admission to all athletic games on the campus, lyceum numbers, subscriptions to the *Etownian* and the *Conestogan*, enrollment, limited use of the infirmary, furnished rooms, and board, exclusive of Thanksgiving, Christmas, end of semester and Easter vacations. It does not include the accident insurance premium required of all students, the automobile registration fee, laboratory fees, and/or other incidental expenses. The fee amounts to $1,525.00 for students residing in the New Men's and New Women's Residence Halls and to $1,475.00 for students residing in other residences.

Day Students

The expenses for a student attending College from his home are $875.00.

Payment of Bills

The yearly charge to the student is payable in four installments, as follows:

	Resident Students	*Day Students*
At the opening of First Semester	$381.25	$218.75
On or before December 1	381.25	218.75
At the opening of Second Semester	381.25	218.75
On or before April 1	381.25	218.75

For students residing in residences other than the New Men's and New Women's Residence Halls, the quarterly charge is $368.75.

The bills may vary from the stated amounts in certain instances because of laboratory charges and because of special work taken in other than the regular courses for which the student is enrolled. Students whose accounts are unpaid after dates of settlement as announced above may be asked to withdraw from College unless satisfactory arrangements are made in writing with the Treasurer's office.

Laboratory fees, college store charges, and all other special fees will be added to the second and fourth invoices.

Credit allowed for scholarships, grants-in-aid, work, and the like will be deducted from the second and fourth invoices.

The tuition charge for less than 10 and more than 18 hours per week is $22.50 per semester hour when students take work with regular classes. Whenever choir, chorus, and/or orchestra increases the number of credits covered by a flat tuition rate for that particular semester, no extra charge will be made for such excess credit.

Each student is credited with $5.00 per year from his college fee toward an alumni life membership fee of $20.00 and with class membership fees of $2.50 per year. Since students who are enrolled as special students or in summer and evening sessions are not charged the activity fee, any student who has not paid the college for eight semesters will be billed prior to graduation for the difference due. This procedure entitles each student to participate in his respective class activities and gives each graduate a life membership in the Alumni Association.

All automobiles operated and parked on the campus by students must be registered at the Business Office, and a $3.00 registration fee per semester must be paid.

All fees are subject to change without further notice.

Absence and Sickness

A student who is absent from College because of sickness, or for any other reason, and retains his place in class, pays in full during his absence except when the absence is continuous over a period exceeding two weeks, in which case a rebate of $5.00 for board is allowed resident students for each full week of absence.

Withdrawal

Notice of voluntary withdrawal must be given in writing to the Dean of the College. If such withdrawal occurs before the end of the semester, the student is obligated for the entire semester's charges, except for 75% of the unused board charges and 50% of the unused room charges, and for tuition as follows:

Period of Attendance	*Per Cent of Semester's Charge*
One week	No Charges
2 to 3 weeks	25%
4 to 5 weeks	50%
6 to 7 weeks	75%
After 7 weeks	100%

The effective date for calculating refunds will be the date of receipt of a written notice of withdrawal by the Dean.

General Expense Information

Arrangements have been made by the college with a standard insurance company to provide an accident insurance policy with accident coverage up to $500.00 for the college year. This policy provides accident protection on or off campus. The rates are $8.00 for men and $4.00 for women per college year unless notifi-

cation of change is given prior to August 1. It is compulsory on the part of all students to carry this insurance.

The cost of one lesson per week in piano, voice or organ is $30.00 per semester. A piano rental fee of $5.00 per semester is charged for piano practice; a piano rental fee of $3.00 per semester is charged for the use of voice practice rooms; an organ rental fee of $8.00 per semester is charged for organ practice.

A fee of $1.00 per semester is charged to the account of each member of the College Chorus and College Choir to pay for oratorio books or other necessary music. All music is retained in the choral library of the College.

A charge of $3.00 per semester hour of credit is made for all examinations given under the Committee on Curricula and Instruction for advanced standing.

Students for whom it is possible to substitute a course offered on campus for an off-campus extension course will be permitted to enroll in the extension course only with the approval of the Dean of Instruction and the payment of an additional extension fee. Any student enrolled for 10 or more semester hours including extension courses will be considered a full-time student and will be expected to pay full-time fees and to abide by all regulations that affect regularly enrolled students.

A maximum of two transcripts will be provided free for all students while in regular attendance. Upon request after graduation, a complete transcript will be furnished free. A charge of $1.00 per copy will be made for all other transcripts of credit.

No transcript of credits is furnished to a student whose accounts are unpaid.

All students are required to deposit a breakage and replacement fee of $10.00 in the freshman year. Any breakage or replacement charge is credited against this fee. At the beginning of each year, the student is billed to bring the deposit up to $10.00.

A fee of $10.00 must accompany the "Application for Admission." This fee, covering the cost of processing the prospective student's application, is non-refundable and cannot be applied toward the payment of other charges.

A successful applicant for the September term should send to the Director of Admissions, Elizabethtown College, a matriculation deposit of $50.00 on or before May 20. Those receiving notification of acceptance after May 5 should send the $50.00 matriculation deposit within 15 days of the date of notification. This fee reserves a room for boarding students. It will be credited to the student's account when he matriculates. The fee is not refundable.

A preregistration fee amounting to $25.00 is required of all matriculated students planning to return to college. The fee for the following year is payable with the fourth quarter installment of each year's fees. It is applicable to the first semester's account. The fee is not refundable.

A graduation fee of $10.00 is charged each candidate for a degree. Each candidate is also charged the actual cap and gown rental fee.

Checks should be made payable to Elizabethtown College.

Scholarships, Loans, and Part-Time Employment

Elizabethtown College offers several types of scholarships, grants, loans, and part-time employment to students in need of financial assistance. Regulations governing the granting of student aid will be sent upon request. Students benefiting from these awards are expected to uphold the social and spiritual ideals of the College and to be willing to serve in various capacities mutually agreed upon.

Scholarships

Elizabethtown College Scholarships

Elizabethtown College has available various scholarship funds. A student to be eligible for consideration must be graduated in the highest tenth of his class and/or be a finalist in the National Merit Scholarship ratings. All scholarship candidates should take the Scholastic Aptitude Test of the College Entrance Examination Board. Applications for scholarships should be presented on the Princeton Scholarship Service Form. This form is available from the Educational Testing Service, Princeton, New Jersey, or from the college admissions office.

The holders of these scholarships must maintain a scholastic average indicated by the following credit-quality point ratios in order to be eligible for the renewal of scholarships: at the close of the Freshman year 2.25; at the close of the Sophomore year 2.50; at the close of the Junior year 2.75. For quality point values see page 20.

Scholarships are awarded by a Faculty Committee.

Pennsylvania Power and Light Scholarship

Elizabethtown College is one of fifteen institutions which Pennsylvania Power and Light scholarship winners may attend. Further information should be requested from the company offices in Allentown, Pennsylvania.

Charles Troxell Royer Memorial Scholarship

Mr. and Mrs. Charles Royer, of Westminster, Maryland, established this scholarship of $3,000.00 in memory of their son, Charles Troxell Royer, who died in November, 1918, while a student at the College. Students preparing for service on the mission field may benefit from this income.

Student Volunteer Missionary Scholarship

This scholarship of $3,000.00 was established by the Student Volunteers of the College. The income from this fund is given to worthy students preparing for active missionary service.

For additional information concerning available scholarships write to the Director of Admissions, Elizabethtown College.

Grants-in-Aid

Various grants-in-aid are offered Church of the Brethren ministers, children of full-time Church of the Brethren pastors, BVS personnel, all siblings concurrently enrolled, and students with special abilities.

Application in writing must be made for all grants-in-aid before October 1. An application received after October 1 will be considered only for the second semester. Application forms can be secured in the Registrar's Office.

Loans

David E. Brandt Loan Fund

For the purpose of aiding deserving students Mr. David E. Brandt, of East Berlin, Pennsylvania, established a $500.00 loan fund.

Harrisburg Church Loan Fund

On January 12, 1918, the Harrisburg church established a $50.00 loan fund to help students lacking funds to secure a college education.

The National Defense Student Loan Program

The College is certified as a participant in the National Defense Student Loan Program. Under this program, a student may make application for loan funds up to a maximum of $1,000.00 annually. Loans are granted on the basis of need, scholarship, and curriculum. Application should be made through the Treasurer.

Emanuel G. Hoff Loan Fund

Because of his interest in assisting young people to fit themselves for a life of useful service Elder Emanuel G. Hoff, a beloved Bible Institute teacher at the College for a number of years, gave a $50.00 loan fund to the college.

Stanley H. Ober Loan Fund

Through the proceeds of lectures by Mr. Edgar A. Guest and Dr. H. K. Ober, a loan fund of $1,250.00 was created in memory of Stanley H. Ober, a loyal and devoted student who died April 12, 1926.

Samuel S. Gibble Loan Fund

In memory of Mrs. George Fraser's father, the late Samuel S. Gibble of Lancaster, Pennsylvania, Mrs. Fraser has created a loan fund of $5,000.00 for the purpose of assisting students who are preparing for the Christian ministry or for missionary work. All applicants for loans from this fund need to be approved by Mrs. Fraser. Application is made through the Treasurer of the College.

Alumni Loan Fund

In June, 1910, the Alumni Association of the College established a loan fund of $1,000.00. This fund has been increased through the years until it now amounts to $3,200.00. Friends of the College and of her Alumni are invited to send additional contributions to the Treasurer of the Alumni Association so that this fund may be increased and more students assisted.

David E. Fox Loan Fund

On May 21, 1924, David E. Fox, of Harrisburg, gave to the College $1,000 to be used in making loans to worthy students.

Dr. W. A. Pearson Loan Fund

On May 26, 1941, Dr. W. A. Pearson, Dean of the Hahnemann Medical College, Philadelphia, Pennsylvania, gave to the College $50.00 to be used in making loans to worthy students.

Student Rotary Loan Fund

The General Brotherhood Board annually grants a limited amount of its Rotary Loan Funds to each college of the Church of the Brethren. This grant is to be loaned to worthy students who are members of the Church of the Brethren. For further details regarding these loans write to the President of the College.

Phoebe Longenecker Stutzman Loan Fund

On May 26, 1958, Phoebe Longenecker Stutzman established a loan fund of $1,000.00 to be used in aiding worthy students pursue their education.

Hollinger-Kilhefner Loan Fund

In memory of John Hollinger and Audrey Kilhefner, their class, the Class of 1958, established a fund to which the Class of 1959 also contributed. Its purpose is to aid worthy students in furthering their education.

William G. Nyce Loan Fund

Through the Estate of William G. Nyce, a $5,000.00 loan fund was established. This fund is available especially to students preparing for church vocations.

Prizes

The Royer Bible Prize—Each year the sum of $10.00 is awarded to the student who achieves the highest grade in Bible and who possesses excellence in Christian character.

The Weaver Biology Prize—Charles E. Weaver, M.D., class of 1926, of Manheim, Pennsylvania, each year offers a prize of $10.00 to a student in the junior or senior class who demonstrates high scholarship in biology, and who gives promise of success in graduate study or teaching.

The Butterbaugh Chemistry Prize—The late D. F. Butterbaugh, M.D., class of 1926, provided a prize of $10.00 to a student in the junior or senior class who demonstrates high scholarship in chemistry, and who gives promise of success in graduate study or teaching.

The Kettering Accounting Prize—Mr. Joseph W. Kettering, C.P.A., class of 1923, of Elizabethtown, Pennsylvania, each year offers a prize of $10.00 to a student in the junior or senior class who demonstrates high scholarship in accounting, and who gives promise of success in graduate study or accounting.

The Raffensperger Journalism Prize—The Horace E. Raffensperger, A.M., $25.00 award for outstanding journalistic writing is awarded yearly to the student doing superior news reporting and feature articles for the current school year.

The Dr. John Robert Gregg Memorial Medal—Mr. Earl F. Weller, class of 1933, provides this medal each year to the graduating student with outstanding personality, who has attained proficiency in secretarial science, and who has a shorthand excellency. Students completing the two-year course in Secretarial Science, the two-year course in Medical Secretarial Science, and the four-year course in Business Education are eligible.

The Weaver-Zeigler Prize—A prize of $15.00 is awarded annually to that member of the senior class who during his or her career at college has shown the greatest interest and scholarship in the courses in Bible and Christian leadership. This prize is given by Carl and Naomi Weaver Zeigler, classes of 1931 and 1934, in memory of their parents Reverend George W. and Magdalena Oberholzer Weaver and Harvey F. and Susan Wenger Zeigler.

Accounting Award

Each year the Pennsylvania Institute of Certified Public Accountants awards "The Accountants Handbook" to a member of the graduating class whose academic ability in accounting is excellent and whose professional attitudes and characteristics are highly commendable.

The Wall Street Journal Award

Each year the Wall Street Journal makes an award of a medal and a year's subscription to the newspaper to a graduating student who has done outstanding work in the field of finance and business.

General Regulations

Only upon petition to the Committee on Admissions can a student dismissed from the College for any cause be reinstated. A student will not be readmitted for the semester immediately following the one in which an offense was committed. A student dismissed for misdemeanor loses all credit for work done during the semester, and in case of reinstatement will be on general probation for a year.

Agents are not permitted to solicit students on the campus or in the dormitories without first securing permission from the Treasurer.

Visitors to the College are expected to report to the Dean of Men or Dean of Women so that proper entertainment may be provided for them. They will be required to conform to the regulations of the College while they are on the campus. Meals and lodging for guests will be charged at established rates.

The College approves a linen rental service which, for an established fee, will supply each student weekly with linens. A letter explaining this service will be sent to each resident student during the summer months. Facilities for personal laundry are available in the dormitories.

Occupants of a room are held responsible for all breakage and loss of furniture or any loss whatsoever for which the students are responsible.

To make his room homelike and attractive the student should provide curtains, pictures, rugs, cushions, and other articles as desired.

All students living in any of the College residence halls or in rooms provided by the College are required to take their meals in the College dining hall.

The College provides rooms for all unmarried students living away from their homes. Only for exceptional reasons may such students live in rooms not provided by the College. Approval by the Administrative Committee for this privilege must be secured before such arrangements are permitted.

Freshman boarding students are not permitted to have automobiles on the campus or in the borough of Elizabethtown except by special permission.

Health Service

All possible efforts are made to safeguard the health of all students. For emergency and minor illnesses an infirmary is provided with a graduate nurse in charge, and local doctors on call. Students may select their own physician. In cases of serious or prolonged illness the student, on advice of the attending physician, will be removed to his home or to a nearby hospital.

Physical Education and Athletics

Physical education and athletics are an integral part of the curriculum, important in the development of the "whole" individual. All students physically able are urged to participate in the program. Every student, when enrolled, is granted permission by parent or guardian to participate in competitive and intercollegiate sports unless the college, by written statement to the Office of the Dean of Instruction, is otherwise instructed.

Intramural athletics are a very important part in the program of health and physical training. The program is voluntary. However, students are encouraged to participate in at least one sport. Schedules and tournaments are arranged for various campus groups. Schedules are made for tennis, soft ball, touch football, basketball, badminton, volley ball, and table tennis.

The college maintains intercollegiate teams in soccer, cross country, basketball, wrestling, baseball, and tennis and provides attractive schedules with other colleges. All eligible students are invited and urged to become candidates for the teams.

Intercollegiate sports for women include field hockey, basketball, and tennis. Attractive schedules are arranged with other colleges. Intramurals for women are organized by the Women's Athletic Association.

Elizabethtown College is a member of the following collegiate conferences:

1. National Collegiate Athletic Association
2. Eastern Collegiate Athletic Conference
3. Middle Atlantic States Collegiate Athletic Conference
4. National Association of Intercollegiate Athletics

Student Activities

The College encourages and directs activities which are in harmony with the purpose of the institution. The Director of Student Activities is charged with the scheduling of all extracurricular activities except athletics.

Before any public activity of those student organizations under the jurisdiction of the director is scheduled, application for permission and a date must be filed in writing with the director.

Student Government Organizations

All students are members of the Student Association.

Student Senate

The coordinating body of the Student Association is the Student Senate composed of eleven members elected by the students. Nominations are by petition and the preferential system of voting is used. Officers of the Student Senate are the president of the Student Association, the vice president, the secretary, and the treasurer. This body meets at least once a month and sessions are open to all members of the Student Association.

The Committees on Men's and Women's Affairs

The committee on women's affairs is composed of six students elected by the women students. Four members represent boarding students and two represent day students. Members are nominated by their respective groups and voted upon by all the women students.

The committee on men's affairs is composed of six students elected by the men students. Four members represent boarding students and two represent day students. Members are nominated by their respective groups.

The Dean of Men and the Dean of Women serve as advisers to these committees and to the Student Senate and assist the students in governing in harmony with the policies of the college. By request of the respective Deans, actions of the committees may be reviewed by the Administrative Committee.

Student Christian Organizations

Student Christian Movement

This group coordinates all religious activities on the campus. Students serve as leaders for the weekly meetings.

Brethren Youth Fellowship

This is an active organization of Church of the Brethren and other interested students. Monthly meetings concern themselves with studies and discussions of Brethren history, doctrines, and programs.

Lutheran Students Association

The Lutheran students meet at regularly stated times to participate in activities of interest to their denomination. The Lutheran churches of Elizabethtown and vicinity offer leadership and encouragement.

Student Ministers' Fellowship

The student ministers' organization is known as the Eta Gamma Kappa. It promotes the fellowship of men students interested in preparing for full-time church vocations.

Clubs

Sock and Buskin

The purpose of the organization is to stimulate interest in the interpretation of the leading dramas of the day. A number of public dramatic programs are given during the year.

Political Science

This club has the dual purpose of fostering an understanding of the processes of American government and of furthering a knowledge of international relations.

Students participate in the yearly Intercollegiate Conference on government and in the model United Nations organization.

Phi Beta Chi

This society has a two-fold purpose: to encourage and foster undergraduate work in science, and to provide closer contacts for students interested in science.

German Club

The German Club tries to preserve German culture manifested in German music, song, poetry and German conversation particularly cherished in this section of the country by people of German origin. The club is open to all interested students and faculty.

Dramatic Workshop

The purpose of this group is to bring together all students who are interested in any form of drama-acting, staging, lighting, make-up, properties, or business. Qualified members will be eligible for admittance to Sock and Buskin Club.

Society for Advancement of Management (SAM)

The Elizabethtown Chapter of SAM is one of 150 chapters in the university division of the national organization whose purpose is to bring together executives in business with students preparing to enter into all fields of business.

Membership is open to all business administration and other interested students.

Student Teachers Association

The purpose of the Student Teachers Association is to develop among young people who are preparing to be teachers an organization which shall be an integral part of state and national education associations. An attempt is made to acquaint student teachers with the history, ethics, and program of the organized teaching profession.

Other clubs may be organized as and when the demand arises.

College Publications

The *Bulletin* is published quarterly by the College and includes the Alumni Edition, the View Book Edition, the Catalog Number, and Summer Session Announcements.

The *Etownian* is published semi-monthly except June, July and August by the Student Association. This student publication aims to bring to its readers the news about the College and its alumni.

The *Rudder*, the student handbook, edited each college year by the student senate, is an indispensable manual for all students. It is sent to incoming freshmen a few weeks before registration. All general college regulations not listed in the annual catalog are contained in the *Rudder*.

The *Conestogan* is published annually by the Student Association. It contains a pictorial representation of the activities, organizations, and surroundings of the College, and gives interesting information about its students and alumni.

Musical Activities

The personnel of the College Choir is chosen from the membership of the College Chorus, and consists of thirty-six to forty members. The greater part of the training of the Choir is in the realm of unaccompanied singing, but it also sings accompanied music.

During the second semester the College Choir takes frequent trips, giving concerts in Brethren churches and other churches of Pennsylvania. The College Choir also prepares a repertoire of secular music which is presented at some time during the second semester of each school year.

The College Chorus is an organization consisting of around a hundred members, which presents a great oratorio at some time during the school year. The oratorio is presented in the college auditorium, with guest soloists and college soloists.

The College Orchestra is a combination of instrumental players who are available from among the students of the college. The Orchestra plays at athletic events and in other public events. They also participate in the College Musical Festival which is presented near the end of the school year.

The Men's and Women's College Quartettes are chosen from the membership of the College Choir; they carry out their activities under the directorship and supervision of the head of the music department. Their vocal repertoire is both sacred and secular. They sing both separately and together, and make frequent public appearances in churches, high schools, and other places.

Buildings and Grounds

One of the first and certainly one of the most lasting impressions of Elizabethtown College is centered in the verdant beauty of its 65-acre campus.

Interwoven with a network of paved walks and roads, the grassy campus is systematically dotted with an abundance of trees and the various buildings and athletic facilities of the college. Included in the latter category are a baseball diamond, soccer field, hockey field, and several all-weather tennis courts.

Alpha Hall

Alpha Hall, the administrative center of the campus, is the original building, having been opened to classes in 1901. In addition to the various administrative offices of the college, it houses over 40 students on the second and third floors and has a classroom and the Student Activities Office on the ground floor.

Auditorium-Gymnasium

The hub of the campus physical education program and cultural and religious activities, the auditorium-gymnasium, was erected in 1929 with the help of Joseph C. Johnson, who donated half of the funds needed for construction, and other interested alumni. With facilities for seating 1,000 people on the main floor and balcony, this building is used for a variety of college activities.

Zug Memorial Library

Completed in 1950, this centrally-located, modern, brick building presently houses 23,500 volumes of reference material, biographies, and fiction works with facilities for 25,000 more. In addition, 250 periodicals are carried, eight newspapers are received through subscriptions, and about 20 others are available through the Public Relations Office.

The ground floor contains a magazine room and the Brethren Historical Room. Library offices and the main reading room are located on the main floor. Book stacks are maintained on all three levels of the building.

North and South Halls

Built by the Federal Government under the terms of the Lanham Act, these two connecting dormitories provide complete housing facilities for approximately 80 male students.

Business Education Building

This building provides the college with five classrooms and several faculty offices. It serves as a meeting place for the majority of the business classes as well as some classes of the language department. All types of office machines are available for students' use.

New Women's Residence Hall

With complete facilities for housing 130 women, this modern, three-story, brick structure was completed in 1957 at a cost of $712,000. In addition to serving as the main women's residence hall, it contains the college kitchen and dining hall, where all students take their meals. The main lounge serves as a setting for teas and other social events.

New Men's Residence

This three-story brick structure, built along modern colonial lines, is the newest and largest building on the campus. Within its two wings are facilities for housing 230 men, including lounges, recreation facilities, and infirmary space. The building and its furnishings are modern in every respect for comfortable and practical dormitory living.

Rider Memorial Hall

Dedicated in 1906 to the memory of Joseph Rider, an early supporter of the college, this four-story ivy-covered building contains the college store and recreation room on its ground floor. Faculty offices, two classrooms, and several music department practice rooms are on the second floor with other classrooms located on the third story. The upper floor is used as a dormitory.

Fairview Hall

This, the third building to be erected on campus, was dedicated in 1921. A three-story brick structure, it is used primarily as a dormitory with additional facilities for an infirmary.

Gibble Memorial Building

With the addition of the new wing, this building houses complete facilities for the science and engineering departments. A two-story structure erected by the Gibble Family Association, it contains chemistry, biology, and physics laboratories in addition to faculty offices, lecture rooms, a science reference library, and storage rooms.

The laboratories are fully equipped with high quality facilities.

West Hall

Situated on the northwestern corner of the campus, this homelike building houses 15 students.

Lake Placida

Developed near an evergreen grove on the eastern portion of the campus, Lake Placida affords a setting for relaxation for students and faculty. Periodic picnics and vesper services and the annual Homecoming Day tug-of-war are held at its edge.

The Alumni Association

The Alumni Association is organized to promote fellowship among alumni and to secure their intelligent support of measures beneficial to the College. All persons who have been graduated from the College or from the Academy, or in any special course, or who have attended the institution in any department for a period of one semester or the equivalent thereof, are eligible for active membership.

The Association is entitled to a representation of three members on the Board of Trustees. These members are nominated by the Association and serve three years.

Officers 1959–1960

President, HAROLD Z. BOMBERGER, '43.....Harrisburg, Pa.
Vice-President, CLIFFORD HUFFMAN, '47.....Lancaster, Pa.
Recording Secretary, ANNA CARPER, '41.....College Park, Md.
Treasurer, MERLE E. BLACK, JR., '47.....Elizabethtown, Pa.

Boston

President, DR. JOHN D. TRIMMER, '26.....Amherst, Mass.
Secretary-Treasurer, DR. JOHN G. KUHNS, '17.....Boston, Mass.

Harrisburg

President, HAROLD Z. BOMBERGER, '43 (acting).....Harrisburg, Pa.
Vice-President, RICHARD FALK, '58.....Harrisburg, Pa.
Secretary-Treasurer, NANCY MARTIN, '51.....Harrisburg, Pa.

Juniata

President, GLENN GINGRICH, '49.....Blain, Pa.
Vice-President, RUTH BURRIS, '32.....Bunkertown, Pa.
Secretary-Treasurer, OLIVE JAMISON, '34.....McAlisterville, Pa.

Lancaster

President, DR. JOHN STAUFFER, '49.....Mt. Joy, Pa.
Vice-President, WALTER GINGRICH, '49.....Elizabethtown, Pa.
Secretary, LEONA R. WEAVER, '37.....Elizabethtown, Pa.
Treasurer, WILBUR E. WEAVER, '37.....Elizabethtown, Pa.

Lebanon

President, ALAN WHITACRE, '53.....Myerstown, Pa.
Vice-President, PAUL BASHORE, JR., '54.....Fredericksburg, Pa.
Secretary-Treasurer, DOROTHY H. GRACE, '56.....Palmyra, Pa.

Philadelphia

President, JOHN SPEIDEL, '37.....Jenkintown, Pa.
Vice-President, DR. GERALD WEAVER, '50.....Chester, Pa.
Secretary-Treasurer, JANET B. SPEIDEL, '43.....Jenkintown, Pa.

York

President, DAVID C. WILSON, '54.....Seven Valleys, Pa.
Vice-President, DONALD NEISER, '49.....York, Pa.
Secretary-Treasurer, GLADYS ARNOLD, '56.....Jacobus, Pa.

The Alumni Council

President, HAROLD Z. BOMBERGER, '43.....Harrisburg, Pa.
Vice-President, CLIFFORD HUFFMAN, '47.....Lancaster, Pa.
Secretary, ANNA CARPER, '41.....College Park, Md.
Treasurer, MERLE E. BLACK, JR., '47.....Elizabethtown, Pa.
Executive Secretary, CLARENCE G. ENTERLINE, '31.....Elizabethtown, Pa.
JANET SENFT, '47.....Thomasville, Pa.
J. ALBERT SELDOMRIDGE, '52.....Elizabethtown, Pa.
BETTY FORNEY SAYLOR, '41.....East Petersburg, Pa.
JAMES M. MARTIN, '39.....Annville, Pa.
ESTHER ZUG PAPSON, '36.....Lebanon, Pa.
BENJAMIN G. MUSSER, '43.....New Cumberland, Pa.
NANCY L. HOFFMAN, '55.....Harrisburg, Pa.
DONALD E. RUHL, '55.....Manheim, Pa.
EDWIN BOLL, '47.....Elizabethtown, Pa.
MARGARET BOSE LEHMAN, '51.....Glen Rock, Pa.
ETHEL M. B. WENGER, '24, Trustee.....Rexmont, Pa.
GALEN C. KILHEFNER, '30, Trustee.....Elizabethtown, Pa.
I. WAYNE KELLER, '30, Trustee.....Lancaster, Pa.

Commencement

Monday, June 1, 1959
10:00 A.M.

Address: THE HONORABLE ARTHUR S. FLEMMING
Secretary of the Department of Health, Education and Welfare, Washington, D. C.

Honorary Degrees

M. GUY WEST, *Doctor of Divinity*
WALTER W. ESHELMAN, *Doctor of the Science of Pedagogy*
ARTHUR S. FLEMMING, *Doctor of Humane Letters*

Degrees in Course

Bachelor of Arts in Liberal Arts

EDWARD CHARLES APPEL, *Summa Cum Laude*.....Lancaster, Pa.
CLARA LUCILLE BARRETT.....Norfolk, Va.
*GARY BRUCE BEARD.....Cornwall, Pa.
KENNETH L. BOWERS.....Landisville, Pa.
J. DANIEL BRENSINGER.....Denver, Pa.
*WILBERT DOURTE.....Lebanon, Pa.
ORRIE FEITSMA.....Newton, N. J.
JERALD L. GARLAND.....Chambersburg, Pa.
LIGA GRINBERGS.....Souderton, Pa.
L. RAYMOND GROFF.....Manheim, Pa.
MAYNARD GRUNSTRA, *Cum Laude*.....Houston, Del.
**JAMES C. HARRIS.....Elizabethtown, Pa.
RONALD P. HENDRICKS.....Elizabethtown, Pa.
DONALD E. KNAUB.....York, Pa.
**VASSILIKI CELIA LASCARIDES.....Greece
**NANCY JANE LEARN.....Stroudsburg, Pa.
*RICHARD G. MILLER.....Elizabethtown, Pa.
JOAN RIGLER.....Woodbury, N. J.
LARRY ROBERT SEIDERS.....Elizabethtown, Pa.
**CLAIR TRUMAN SHAFFER.....Elizabethtown, Pa.
RICHARD E. SHARPLESS.....Middletown, Pa.
GEORGE MARTIN SMITH.....York, Pa.
BEVERLY JUNE STYER.....Lancaster, Pa.
*ROBERT TURNER.....York, Pa.
*JAMES T. WHITE.....Lititz, Pa.
*RICHARD K. WILLIAMS.....Middletown, Pa.

Bachelor of Science in Science

RALPH SPENCER BAKER.....Hudson, N. Y.
HARRY MARLIN BAUM.....Middletown, Pa.
WILLIAM FREDERICK BILLOW.....Elizabethtown, Pa.
JAMES H. BOOTH.....Mt. Joy, Pa.
LAURENCE ELBERT BRYDIA.....Philadelphia, Pa.
COLVIN CECIL CARTER.....Sunderland, Md.
JAMES DAVID EBY.....Kinzers, Pa.
JOHN EDWARD ENGLE, *Summa Cum Laude*.....Palmyra, Pa.

* Degree granted August 14, 1959.
** Degree granted February 2, 1959.

William R. Fox.....Lewistown, Pa.
Jack Le Grande Hedrick, *Cum Laude*.....Glen Rock, Pa.
**Robert Bruce Hesser.....Lancaster, Pa.
Margaret Ann Hostetter.....Thomasville, Pa.
Russell C. Le Fevre, Jr.....Vineland, N. J.
Richard Paul Markowitz.....Royersford, Pa.
Donald Edgar Monn.....Bethesda, Md.
*Jerry Lee Motter.....Middletown, Pa.
*Robert H. F. Peterson.....Middletown, Pa.
Joyce A. Schaffner.....York, Pa.
Ruby Cornelia Sykes.....Norfolk, Va.
Ronald Eugene Varner.....Windber, Pa.
*Charles Edward Weaver, Jr.....Manheim, Pa.
Kenneth James Wise.....Gap, Pa.
Carl Weaver Zeigler, Jr.....Lebanon, Pa.

Bachelor of Science in Business Administration

Ricardo W. Annibali.....Palmyra, Pa.
David Lewis Arnold.....York, Pa.
William Ellard Brenneman.....York, Pa.
Margaret Geneva Brown.....Annapolis, Md.
Terry Lee Bush.....Camp Hill, Pa.
Emerson D. Cale.....Harrisburg, Pa.
William Hugh Colegrove.....Ridgeway, Pa.
*Sheldon Ralph Dent.....Norwood, Pa.
*Matthew M. Douglas, Jr.....Harrisburg, Pa.
Larry E. Dromgold.....Blain, Pa.
Morton Cutler Feder, Jr.....York, Pa.
*John Richard Grimm.....Elizabethtown, Pa.
Larry Rhea Gring.....Harrisburg, Pa.
**William C. Hamil.....McConnellsburg, Pa.
Karl Clifton Hassler.....York, Pa.
George Donald Hess.....Pequea, Pa.
Charles E. Imboden.....Harrisburg, Pa.
*Louis Conrad Jacoby.....Elizabethtown, Pa.
Beverly Alice Jerrell.....Millville, N. J.
Arlan Gerald Keller.....Middletown, Pa.
*Thomas N. King, Jr.....Harrisburg, Pa.
William C. Larish, *Cum Laude*.....Hershey, Pa.
Earl Whitfield Mellott.....McConnellsburg, Pa.
Robert Alan Miller.....Harrisburg, Pa.
*Dennis L. Myers.....York, Pa.
Harold Marshall Pomroy.....Rockaway, N. J.
James W. Rahn.....Elizabethtown, Pa.
**Bruce Wilson Slaybaugh, Jr.....York, Pa.
Donald Ray Slonaker.....Glen Rock, Pa.
Edward B. Smith.....Hershey, Pa.
Jere Lee Thome.....Mt. Joy, Pa.
Gerald R. Tome.....Hummelstown, Pa.
Gerald H. Trissler.....Brownstown, Pa.
Paul Savas Vulopas.....Lancaster, Pa.
Loren L. Wagner.....Florin, Pa.
James A. Wingert.....Middletown, Pa.
Gene R. Wise.....Ephrata, Pa.
*H. Edgar Wisehaupt.....Linglestown, Pa.

* Degree granted August 14, 1959.
** Degree granted February 2, 1959.

Bachelor of Science in Secondary Education

David Coleman Anwyll ..... Harrisburg, Pa.
Glenn S. Crum ..... Newport, Pa.
*Richard Leonard Dennis ..... Sussex, N. J.
**Edwin W. Geiger, Jr. ..... Camp Hill, Pa.
Hayes B. Girvin ..... Middletown, Pa.
**Oscar Pumarejo ..... Elizabethtown, Pa.
R. Kent Replogle ..... Roaring Spring, Pa.
Bernard A. Thome ..... Mt. Joy, Pa.
**Daneen Kay Webb ..... Lancaster, Pa.
G. Curtis Weddle ..... Elizabethtown, Pa.

Bachelor of Science in Business Education

Ruth Ann Arnold ..... York, Pa.
Diana Lorraine Leister ..... McAlisterville, Pa.
Marilyn Kay Ward ..... Mechanicsburg, Pa.

Bachelor of Science in Elementary Education

Madeline Ella Brightbill ..... Gloucester, N. J.
*Sara Cooper ..... Lancaster, Pa.
*Yvonne E. Cosner ..... Elizabethtown, Pa.
**Myrtle S. Messner Davis ..... Harrisburg, Pa.
**Mildred L. Earhart ..... Columbia, Pa.
Mary Jean Espenshade ..... Elizabethtown, Pa.
**Edna K. Forney ..... Thompsontown, Pa.
Evelyn V. Garrett ..... New Cumberland, Pa.
Ruth Ann Gulyas ..... Huntingdon Valley, Pa.
**Margaret E. Haines ..... Elizabethtown, Pa.
*Florence Henning Kulp ..... Norristown, Pa.
Nancy Lee Kurtz ..... Richland, Pa.
Elizabeth Lohr ..... Indian Head, Pa.
Phyllis Ann Moser ..... Thurmont, Md.
Yvonne Mowrey, *Cum Laude* ..... Kimberton, Pa.
Patricia Ann Nase ..... Tylersport, Pa.
Helen Mae Ober ..... New Enterprise, Pa.
Marjorie S. Price ..... Souderton, Pa.
Jeanette Louise Risser ..... Chalfont, Pa.
Jean Anne Rogers ..... Royersford, Pa.
Carolyn Ann Schneider ..... Doylestown, Pa.
Ruth Elizabeth Varner ..... Windber, Pa.
Catherine Louise Weaver, *Cum Laude* ..... Manheim, Pa.
#James A. Yoder ..... Mattawana, Pa.

Bachelor of Science in Medical Technology

*Kathryn L. Barron ..... Mansfield, Pa.
**Sandra J. Hart ..... Lancaster, Pa.

Bachelor of Science in Nursing

**Martha Dunmire ..... McVeytown, Pa.
Joanne Hilda Evans ..... Lancaster, Pa.
Cassandra J. Fitzkee ..... Lancaster, Pa.
Muriel Joan LeVan ..... Harrisburg, Pa.
Betty L. Paules ..... Mechanicsburg, Pa.
Janet M. Paules ..... Mechanicsburg, Pa.
Adelaide E. Shade ..... Harrisburg, Pa.

* Degree granted February 2, 1959.
** Degree granted August 14, 1959.
# Degree granted September 12, 1959.

Recipients of Certificates

Certificate in Medical Secretarial Science

*Ruth Eleanor Drukenbrod.....Lancaster, Pa.
Marguerite Joyce Focht.....Middletown, Pa.
Janet Louise Frankhouser.....New Holland, Pa.
Mary Ellen Groff.....Lancaster, Pa.
Janet Lee Hay.....Gettysburg, Pa.
Doris Verna Hostetter.....Fredericksburg, Pa.
Mary Frances Johnstone.....Lancaster, Pa.
Marjorie Ann Kernen.....Rushland, Pa.
Ruth Grace Keyser.....Abington, Pa.
Elaine Marie Kreider.....Lancaster, Pa.
Virginia Ann Staples.....Ocean Gate, N. J.
Barbara Ruth Swayne.....Kennett Square, Pa.
Linda Lou Wert.....Mifflintown, Pa.

Certificate in Secretarial Science

Marialice Fae Myers.....North Canton, Ohio
Mara Znotens.....Quakertown, Pa.

* Certificate granted August 14, 1959.

Register of Students

1959–1960

Seniors

Men

Adams, William L.	B.S.	Science	294 Moore St., Millersburg
Aungst, Harris F.	B.S.	Science	Box 172, Elizabethtown
Barber, Daniel S.	B.S.	Bus. Admin.	1944-A Chestnut St., Harrisburg
Bitterman, Norman R.	B.S.	Bus. Admin.	36 Orange St., Elizabethtown
Blose, Maurice R.	B.S.	Sec. Educ.	74 N. Pine St., Lewistown
Bortner, Harvey E.	B.S.	Sec. Educ.	639 Pennsylvania Ave., York
Bowman, William A.	B.S.	Science	R.D. No. 1, Box 151, Annville
Brubaker, Russel G.	B.S.	Bus. Admin.	1026 S. Green St., Palmyra
Brubaker, Samuel M.	B.S.	Science	R.D. No. 3, Elizabethtown
Bush, Edwin M., Jr.	B.S.	Bus. Admin.	39 S. Grant St., Manheim
Butler, Stanley I.	B.S.	Bus. Admin.	1533 Third Ave., York
Byers, Charles M.	B.S.	Science	130 W. Walnut St., Marietta
Cassel, L. David	A.B.	Liberal Arts	208 Elizabeth Dr., Lancaster
Cordas, Stevane	B.S.	Science	9 N. 4th St., Steelton
DeStephano, John A.	B.S.	Bus. Admin.	52 S. Newberry St., York
Dibert, J. Earl	B.S.	Sec. Educ.	R.D. No. 3, Elizabethtown
Dieffenbach, Kenneth W.	B.S.	Science	R.D. No. 1, Womelsdorf
Elston, William E.	A.B.	Liberal Arts	757 Madison St., Coatesville
Estock, Gerald M.	B.S.	Bus. Admin.	25 Columbia Ave., Mt. Joy
Falstick, Richard P.	A.B.	Liberal Arts	Box 68, Linglestown
Fasick, Kenneth M.	B.S.	Bus. Admin.	1916 Manada St., Harrisburg
Garman, Terry G.	B.S.	Bus. Admin.	23 W. Orange St., Elizabethtown
Good, Richard W.	B.S.	Bus. Admin.	R.D. No. 2, Box 411, Lancaster
Groff, Charles O.	B.S.	Bus. Admin.	214 Frederick St., Mt. Joy
Halbleib, Asher S.	B.S.	Sec. Educ.	11 Marietta St., Mt. Joy
Hench, John S.	A.B.	Liberal Arts	Loysville
Hershey, J. Malcolm	A.B.	Liberal Arts	510 E. Park St., Elizabethtown
Hibner, Gary W.	B.S.	Bus. Admin.	101 E. Market St., York
Hoar, J. William	A.B.	Liberal Arts	Church St., Gap
Hostetter, Ellis L.	B.S.	Bus. Admin.	R.D. No. 5, Lebanon
Johnson, Harold G.	B.S.	Bus. Admin.	931 Groff Ave., Elizabethtown
Kendig, William L.	B.S.	Bus. Admin.	R.D. No. 2, Spring Grove
Kessler, Guy L.	A.B.	Liberal Arts	159 W. Grand Ave., Tower City
Landis, Harry E., Jr.	B.S.	Science	R.D. No. 6, York
Lantzy, Richard A.	A.B.	Liberal Arts	460 E. Park St., Elizabethtown
Magee, John L.	B.S.	Bus. Admin.	313 Beeson Ave., Wilmington, Del.
Mann, John E.	B.S.	Bus. Admin.	155 N. 6th St., Wrightsville
Marvel, Robert F.	B.S.	Bus. Admin.	735 Center St., New Castle, Del.
McCormick, James E.	B.S.	Bus. Admin.	2716 Lexington St., Harrisburg
Mease, John H.	B.S.	Bus. Admin.	111 Cocoa Ave., Hershey
Merritt, Richard E.	B.S.	Elem. Educ.	R.D. No. 6, York
Metzger, Paul D.	A.B.	Liberal Arts	309 S. Church St., Quarryville
Miller, Gary B.	B.S.	Sec. Educ.	2920 W. Market St., York
Miller, Jack H.	B.S.	Bus. Admin.	R.D. No. 2, Halifax
Miller, Lee W.	B.S.	Science	R.D. No. 1, Woodstown, N. J.
Miller, Ronald H.	B.S.	Bus. Admin.	2941 Heather Pl., Harrisburg
Neyer, Stanley R.	B.S.	Bus. Admin.	419 W. Grand Ave., Tower City
Osborn, G. Henry, III	B.S.	Science	1 E. Franklin Ave., Pennington, N. J.
Pensyl, William G., III	B.S.	Elem. Educ.	246 N. Market St., Elizabethtown
Raver, James R.	A.B.	Liberal Arts	442 Chestnut St., Columbia
Reagan, James W.	A.B.	Liberal Arts	Aetna St., Connellsville
Rentschler, Larry E.	B.S.	Science	146 Landis Ave., Robesonia
Roach, Clyde W.	A.B.	Liberal Arts	1619 N. 15th St., Harrisburg
Robinson, Gilbert A.	B.S.	Bus. Admin.	443 S. 14th St., Harrisburg
Schopf, Edward E.	B.S.	Sec. Educ.	53 College Ave., Mountville
Simonds, David H.	B.S.	Bus. Admin.	514 W. 6th St., Wilmington, Del.
Stevenson, Barry L.	A.B.	Liberal Arts	1700 E. Main St., Waynesboro
Tejeda, Manuel B.	B.S.	Bus. Admin.	98 Upper Ave., Newburgh, N. Y.
Tinglof, Bruce W.	B.S.	Sec. Educ.	2227 Washington St., Canton, Mass.
Tritt, Robert K.	B.S.	Bus. Admin.	139 N. 4th St., Lemoyne
Ulrich, George W.	B.S.	Bus. Admin.	435 Maple St., Annville
Wagner, Kenneth L.	B.S.	Science	525 Railroad St., Tamaqua
Wentz, William P.	B.S.	Bus. Admin.	2154 Swatara St., Harrisburg

Willoughby, Donald E.	A.B.	Liberal Arts	14 E. High St., Elizabethtown
Wise, Robert C.	B.S.	Bus. Admin.	300 N. Hanover St., Elizabethtown
Witt, James E.	B.S.	Science	R.D. No. 1, New Paris
Wolf, Paul L.	B.S.	Science	325 Paradise Dr., Hopeland
Yocum, James W.	B.S.	Science	Newberry Rd., Mt. Rt., Middletown
Zellner, Donald G.	A.B.	Liberal Arts	Box 43, Bainbridge
Zimmerman, Frederick J.	A.B.	Liberal Arts	Main St., Fredericksburg
Zimmerman, Gary R.	B.S.	Sec. Educ.	210 Sunset Dr., R.D. No. 1, New Cumberland

Women

Bair, Jolene Y.	B.S.	Bus. Educ.	R.D. No. 1, Wrightsville
Barrner, Marian J.	B.S.	Elem. Educ.	1729-42nd St., Pennsauken 8, N. J.
Baugher, Nancy K.	B.S.	Elem. Educ.	R.D. No. 2, Lineboro, Md.
Beard, Carol J.	B.S.	Science	1026 Marshall Ave., Lancaster
Durham, Susan B.	B.S.	Sec. Educ.	1262 Lititz Pike, Lancaster
Feaser, Mary Elizabeth	B.S.	Elem. Educ.	127 Spruce St., Middletown
Gilchrist, Marion A.	B.S.	Elem. Educ.	1537-48th St., Pennsauken, N. J.
Gish, Lillian J.	B.S.	Elem. Educ.	227 Highlawn Ave., Elizabethtown
Graham, Marsha E.	B.S.	Elem. Educ.	106 Susquehanna Ave., Enola
Griffith, Jean R.	B.S.	Nursing	Colebrook Rd., Middletown
Grubb, Alberta E.	B.S.	Elem. Educ.	Newberry Rd., Mt. Rt., Middletown
Grubb, Helen R.	B.S.	Nursing	R.D. No. 1, Hummelstown
Heisey, Jean E.	B.S.	Nursing	Box 38, Quentin
Hendricks, Lucille P.	B.S.	Elem. Educ.	R.D. No. 1, Box 196, Harleysville
Heppelein, Joyce M.	B.S.	Elem. Educ.	2805 Earl Ave., Pennsauken, N. J.
Holman, Bette J.	A.B.	Liberal Arts	Arcola Farms, Arcola
Horning, M. Louise	A.B.	Liberal Arts	Rheems
Horton, Virginia A.	B.S.	Elem. Educ.	6110 Irving Ave., Pennsauken, N. J.
Hunberger, Patricia A.	B.S.	Elem. Educ.	651 W. Cherry St., Palmyra
Hyde, Dorothy J.	B.S.	Sec. Educ.	989 South Ave., Custer City
Jackson, Margo A.	A.B.	Liberal Arts	1420 S. New Rd., Pleasantville, N. J.
Johnson, Sandra F.	B.S.	Bus. Educ.	Airville
Kreider, Carroll L.	B.S.	Bus. Educ.	Box 51, Rheems
Krieg, Doris E.	B.S.	Elem. Educ.	175-27 Mayfield Rd., Jamaica, N. Y.
Lantzy, Shirley R.	B.S.	Sec. Educ.	460 E. Park St., Elizabethtown
Leber, Jeanne E.	B.S.	Elem. Educ.	R.D. No. 9, York
Leppo, Lorraine K.	B.S.	Elem. Educ.	R.D. No. 2, Hanover
Pegram, Sidney C.	B.S.	Sec. Educ.	1305 Rose Ave., Lancaster
Reese, Martha H.	B.S.	Elem. Educ.	2401 N. Broom St., Wilmington, Del.
Santee, Sylvia M.	B.S.	Bus. Educ.	2183 Main St., Northampton
Singer, Audrey E.	B.S.	Nursing	Maytown
Swingler, Melanie R.	A.B.	Liberal Arts	R.D. No. 2, Columbia
Ulmer, Barbara A.	A.B.	Liberal Arts	611 Adelia St., Middletown
Ulrich, Kay E.	B.S.	Elem. Educ.	38½ N. Poplar St., Elizabethtown
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1959—Summer Session I

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MARONE, VINCENT A.....6155 Elmwood Ave., Philadelphia
MCNAUGHTON, FRANCIS C.....307 Highland St., Steelton
MERRITT, RICHARD E.....R.D. No. 6, York
MINNICH, JOHN P.....150 Haines, Rd., York
MOTTER, JERRY L.....42 Pine St., Middletown
MUMMA, KENNETH E.....160 Cooper Ave., Landisville
MUTH, RAYMOND F.....R.D. No. 1, Mt. Wolf
MYERS, DENNIS.....17 Barshinger Ave., York
NEFF, KENNETH E.....R.D. No. 1, Pequea
OTTO, DEAN W.....Mounted Rt., Mt. Holly Springs
PALUMBO, FRANCIS A.....626 Race Ave., Lancaster
PAMER, JOHN M.....535 Reynolds Ave., Lancaster
PETERS, KENNETH D.....R.D. No. 2, Lancaster
PETERSON, ROBERT H.....429 N. Union St., Middletown
RHEN, GEORGE W.....514 Weidman St., Lebanon
RICE, KERRY A.....58 Orange St., Elizabethtown
RICHARDS, MAX, JR.....20 Ninth St., Philipsburg
RICKETTS, ROSS G.....2551 S. Carbon St., Allentown
RISSER, GERALD H.....134 S. Lilac Lane, Chalfont
SAVASTIO, LEO J.....245 E. Seond St., Hummelstown
ROBINSON, GILBERT A.....443 S. 14th St., Harrisburg
SEIDERS, TERRY M.....343 N. Locust St., Elizabethtown

SHAVER, DAVID B.....Box 184, 1401 W. Cherry St., Hershey
SHIFFER, CLARK N.....119 S. Main St., Millerstown
SIMONDS, DAVID H.....514 W. 6th St., Wilmington, Del.
SMITH, DALE R., JR.....16 E. Gay St., Red Lion
SNAVELY, HENRY H.....319 Linden St., Lititz
SPICKLER, BENJAMIN F.....206 E. Park St., Elizabethtown
STIMAC, THOMAS J.....1010 Plane St., Middletown
SWARR, PHILIP C.....87 Main St., Landisville
SWARR, RALPH R.....226 Park Ave., Mt. Joy
TEUFEL, ROBERT E.....518 N. Hanover St., Elizabethtown
THOME, BERNARD A.....R.D. No. 2, Mt. Joy
THOME, RONALD E.....559 E. High St., Elizabethtown
TURNER, DON A.....91 Pittsburgh Circle, Ellwood City
VULICH, STEPHEN.....201 Main St., Steelton
WEAVER, CHARLES E., JR.....64 S. Main St., Manheim
WEAVER, DANIEL R.....915 College Ave., Elizabethtown
WHITE, JAMES T.....71 Front St., Lititz
WILLIAMS, RICHARD K.....5 Oaks Trailer Pk., Vine St., Middletown
WISE, ROBERT C.....300 N. Hanover St., Elizabethtown
WISEHAUPT, H. EDGAR.....R.D. No. 1, Linglestown
YAMADA, T. ALBERT.....89 President Ave., Mt. Carmel
YOVANOVIC, MILAN.....207 Main St., Steelton
ZANG, WARREN R.....346 E. Elm St., Shillington
ZELLNER, DONALD G.....Box 43 Bainbridge
ZIMMERMAN, EUGENE H.....201 N. Pleasant Ave., Dallastown

Women

BAINBRIDGE, EDITH H.....14 E. High St., Elizabethtown
BAKER, SALLY L.....610 Groff Ave., Elizabethtown
BARNES, BERTHA E.....7341 Jefferson St., Rutherford Heights
BEARD, CAROL J.....1026 Marshall Ave., Lancaster
BRINSER, FLORENCE A.....648 Briarcliff Rd., Middletown
BRUBAKER, GLORIA A.....R.D. No. 1, Ephrata
BUSH, JEAN T.....General Depot, New Cumberland
BUTERBAUGH, GWEN A.....506 W. Main St., Mechanicsburg
CAMPBELL, BETTY L.....R.D. No. 5, Greystone, Lebanon
CABLE, VIVIAN R.....515 Union St., Millersburg
DAVIS, MYRTLE S.....1823 N. 2nd St., Harrisburg
DUNMIRE, MARTHA.....McVeytown
DURHAM, SUSAN B.....817 Rohrerstown Rd., Rohrerstown
ECK, BEATRICE H.....R.D. No. 5, Elizabethtown
ELLIOTT, CLAIRE C.....2740 Booser Ave., Penbrook
EMBICH, GLADYS C.....1402 Elm St., Lebanon
ESBENSHADE, DOROTHY K.....231 Penn St., Highspire
FASNACHT, LOIS A.....455 W. Bainbridge St., Elizabethtown
FELDER, CORDELLA S.....634 Davis Dr., New Cumberland
FOREMAN, MARY JANE.....182 Governor Rd., Hershey
FORNEY, EDNA K.....Thompsontown
GARRETT, EVELYN V.....518 W. 16th St., New Cumberland
GAINES, GLEN ELLEN.....25 S. Garfield St., Cleona
GICHNER, ELOISE A.....R.D. No. 1, Sheridan
GISH, LILLIAN J.....227 Highlawn Ave., Elizabethtown
GLATZERT, ALPHILD J.....1419 Ford Ave., Harrisburg
GOSNELL, ANNA H.....1939 N. 2nd St., Harrisburg
GRIMM, SANDRA E.....R.D. No. 2, Hummelstown
GRUBB, HELEN R.....R.D. No. 1, Hummelstown
HAINES, MARGARET E.....1211 College Ave., Mt. Rt. 5, Elizabethtown
HAY, JANET L.....R.D. No. 3, Gettysburg
HERSHOCK, LOIS W.....1333 N. Duke St., York
HIPPENSTEEL, MARIE.....6708 Derry St., Rutherford Heights
HOLLINGER, LINDA E.....132 Mill St., Manheim
HORNING, M. LOUISE.....Rheems
HOSTETLER, DOLLIE V.....R.D. No. 1, Palmyra
HUNBERGER, PATRICIA A.....651 W. Cherry St., Palmyra
HYDE, DOROTHY J.....989 South Ave., Custer City
JONES, BETTY J.....25th & Columbia Sts., Harrisburg
KODER, MARY E.....43 W. Main St., Mt. Joy
KLEIN, MARTHA E.....307 N. Railroad St., Maytown
KLINE, MARGARET M.....Schaefferstown
KNUTH, GRETCHEN M.....601 N. 3rd St., Steelton
KOSTELAC, MARGARET A.....392 S. 2nd St., Steelton
KRIEG, DORIS E.....175-27 Mayfield Rd., Jamaica, N. Y.
KURTZ, ESTHER M.....248 College Ave., Elizabethtown
LARGE, DORIS R.....211 S. Broad St., Waynesboro
LEBER, JEANNE E.....R.D. No. 9, York
MCBETH, S. ESTHER.....503 S. Market St., Elizabethtown
MCCONNELL, MARY L.....224 Maple Ave., Hershey
NEWCOMER, NANCY A.....337 W. 16th St., New Cumberland

PORTLAND, FLORENCE....306 Fairview St., Pottsville
RADOS, BARBARA K....4916 Constitution Ave., Harrisburg
RISSER, EVELYN N....R.D. No. 1, Annville
SCHOTT, KATHRYN L....R.D. No. 5, Lebanon
SERGOTT, LEONORA A....R.D. No. 5, Lebanon
SHEPHERD, VIOLA D....52 Vine St., Highspire
SUPERKA, LEONA B....1005 Drexel Hill Blvd., New Cumberland
ULMER, BARBARA A....611 Adelia St., Middletown
WALBORN, PATRICIA A....230 N. Locust St., Palmyra
WEBB, DANEEN K....R.D. No. 1, Box 433, Lancaster
WENTZ, M. PATRICIA....Atglen
WITT, JENNIE D....New Paris
WOLF, DONNA R....121 Baltimore St., Gettysburg
ZLOBIK, DOROTHY E....R.D. No. 1, Bridgeton, N. J.

1959—Summer Session II

Men

AIELLO, CHARLES J....132 Sylvan Terrace, Harrisburg
ALWOOD, GEORGE D....157 W. Gay St., Red Lion
ARNOLD, DAVID L....834 E. Philadelphia St., York
BEARD, GARY B....Box 90, Cornwall
BECHTEL, ROBERT B....511 Chestnut St., Lebanon
BERNHARD, H. FRED....Orchard Rd., Mt. Joy
BITTERMAN, NORMAN R....36 Orange St., Elizabethtown
BLOSE, MAURICE R....452 E. High St., Elizabethtown
BOETTGER, CHARLES H....Paradise
BRILLINGER, HENRY B., II....3000 Derry St., Harrisburg
BRUBAKER, SAMUEL M....R.D. No, 3, Elizabethtown
BUSH, EDWIN M., JR....39 S. Grant St., Manheim
BUTLER, STANLEY I....1533 Third Ave., York
BYERS, CHARLES M....130 W. Walnut St., Marietta
CHAFFEE, QUENTIN R....538 E. Park St., Elizabethtown
CHUBB, JOHN F....2 S. Union St., Middletown
CORMAN, MAX A....R.D. No. 1, Box 63-A, Paxinos
COTTMAN, GLEN H....104 South Rd., Lindamere, Wilmington 3, Del.
CROMER, DOUGLAS E....419 S. Franklin St., Hanover
CRONE, GLENN E....108 E. Keller St., Mechanicsburg
DAVIS, ROBERT L....444 N. Market St., Elizabethtown
DAVIS, SAMUEL G....148 Church St., Landisville
DENGLER, WILLIAM F....43 W. Lincoln Ave., Lititz
DESTEPHANO, JOHN A....52 S. Newberry St., York
DIEHM, ROBERT M....344 S. President Ave., Lancaster
DIGIORGI, FRANCIS J....Box 115, New Cumberland
DOUGLAS, MATTHEW M., JR....1851 Berryhill St., Harrisburg
DUDWITT, JOHN R....41 N. Repauno Ave., Gibbstown, N. J.
EARHART, WILLIAM A....20 N. River St., Maytown
EPPLE, BRUCE D....R.D. No. 1, Reedsville
ESHELMAN, KENNETH R....22 Hillcrest Ave., Waynesboro
ESTOCK, GERALD M....25 Columbia Ave., Mt. Joy
EVANS, DARRYL H....Masonic Homes, Elizabethtown
GARMAN, DONALD N....R.D. No. 4, Box 203, Manheim
GARMAN, TERRY G....23 W. Orange St., Elizabethtown
GOSS, RICHARD J....R.D. No. 3, Mechanicsburg
GROFF, CHARLES O....214 Frederick St., Mt. Joy
HALLGREN, CARL R....269 Marietta Ave., Mt. Joy
HANLE, ROBERT V....3401 Highland St., Allentown
HARRY, JOHN G....R.D. No. 1, Millerstown
HEILMAN, MARTIN A....10 Hix Ave., Rye, N. Y.
HEISTAND, DONALD F....142 W. Granada Ave., Hershey
HOWER, WILLIAM A....443 Maple St., Annville
HUBER, HAROLD E....R.D. No. 3, Box 360,Manheim
JACOBY, LOUIS C....301 W. High St., Elizabethtown
KING, THOMAS N....1907 Manada St., Harrisburg
LANTZY, RICHARD A....460 E. Park St., Elizabethtown
LAUER, IRA E....R.D. No. 1, Dover
LEICHT, PAUL M....620 S. Wood St., Middletown
LUCE, ROBERT W....434 N. Front St., Wormleysburg
MAGEE, JOHN L....313 Beeson Ave., Wilmington 3, Del.
MCNAUGHTON, FRANCIS C....307 Highland St., Steelton
MELLOTT, EARL W....McConnelsburg
MERRITT, RICHARD E....R.D. No. 6, York
MILLER, RICHARD G....R.D. No. 1, Elizabethtown
NINNICH, JOHN P....150 Haines Rd., York
MUMMA, KENNETH E....160 Cooper Ave., Landisville
MUTH, RAYMOND F....R.D. No. 1, Mt. Wolf
MYERS, DENNIS L....17 Barshinger Ave., York

NEFF, KENNETH E.....R.D. No. 1, Pequea
OTTO, DEAN W.....Mounted Rt., Mt. Holly Springs
PALUMBO, FRANCIS A.....626 Race Ave., Lancaster
PAMER, JOHN M.....318 W. Lemon St., Lancaster
POLITO, JOSEPH R.....2738 Lexington St., Harrisburg
PUMAREJO, OSCAR.....719 S. Market St., Elizabethtown
RAVER, JAMES R.....442 Chestnut St., Columbia
REPLOGLE, PHILIP G.....4600 Hampden Ave., Camp Hill
RHEN, GEORGE W.....514 Weidman St., Lebanon
RICHARDS, MAX, JR.....20 Ninth St., Philipsburg
RICKETTS, ROSS G.....2551 S. Carbon St., Allentown
RISSER, GERALD H.....134 S. Lilac Lane, Chalfont
ROBINSON, GILBERT A.....443 S. 14th St., Harrisburg
RODAN, WAYNE D.....2247 Gross Ave., Pennsauken, N. J.
SEIDERS, TERRY M.....343 N. Locust St., Elizabethtown
SHAVER, DAVID B.....Box 184, 1401 W. Cherry St., Hershey
SHERICK, DONALD R.....Washington Boro
SHIFFER, CLARK N.....119 S. Main St., Millerstown
SIMONDS, DAVID H.....514 W. 6th St., Wilmington, Del.
SMITH, ARTHUR M.....R.D. No. 5, Carlisle
SNAVELY, HENRY H.....319 Linden St., Lititz
SPANGENBERG, BARRY K.....220 Old Forest Rd., Philadelphia
STYER, MALCOLM J.....Uwchland
SWARR, RALPH R.....226 Park Ave., Mt. Joy
THOME, RONALD E.....559 E. High St., Elizabethtown
TODD, JAMES H., III.....1977 Hemlock Rd., Norristown
TOME, PALMER E.....R.D. No. 1, Windsor
TURNER, ROBERT.....370 Donegal Springs Rd., Mt. Joy
WEAVER, CHARLES E., JR.....64 S. Main St , Manheim
WENGER, JOHN C.....R.D. No. 1, Quarryville
WILLIAMS, RICHARD K.....5 Oaks Trailer Pk., Vine St., Middletown
WISE, ROBERT C.....300 N. Hanover St., Elizabethtown
YAMADA, T. ALBERT.....College
YOVANOVIC, MILAN.....227 Main St., Steelton
ZELLNER, DONALD G.....Box 43, Bainbridge
ZIMMERMAN, EUGENE H.....201 N. Pleasant Ave., Dallastown
ZIMMERMAN, GARY.....210 Sunset Dr., R.D. No. 1, New Cumberland

Women

ALTLAND, KATHRYN.....R.D. No. 2, Halifax
AUNGST, A. DORA.....226 Highlawn Ave., Elizabethtown
BAINBRIDGE, EDITH G.....337½ Park St., Elizabethtown
BAIR, JOLENE Y.....R.D. No. 1, Wrightsville
BAKER, SALLY L.....610 Groff Ave., Elizabethtown
BARGAR, EDITH M.....R.D. No. 1, Mt. Joy
BARNES, BERTHA E.....7341 Jefferson St., Rutherford Heights
BEARD, CAROL J.....1026 Marshall Ave., Lancaster
BRINSER, FLORENCE A.....648 Briarcliff Rd., Middletown
BRUBAKER, E. YVONNE.....R.D. No, 1, Mt. Joy
BUCKNUM, MARILYN D.....250 Fairview Rd., Springfield
BUTERBAUGH, GWEN A.....506 W. Main St., Mechanicsburg
CABLE, VIVIAN R.....515 Union St., Millersburg
CAMP, ELIZABETH B.....R.D. No. 1, Box 59, Middletown
CAUFFIEL, ELIZABETH D.....1317 Luzerne St., Johnstown
CRIST, SUZANNE N.....2608 Walnut St., Penbrook
CURTIS, BARBARA E.....Box 349, Hackettstown, N. J.
DAVIS, MYRTLE S.....1823 N. 2nd St., Harrisburg
DUNMIRE, MARTHA.....R.D. No. 2, McVeytown
DURHAM, SUSAN B.....817 Rohrerstown Rd., Rohrerstown
EARHART, MILDRED L.....R.D. No, 1, Columbia
EBY, RUTH C.....R.D. New Bloomfield
ECK, BEATRICE H.....R.D. No. 2, Elizabethtown
ESBENSHADE, DOROTHY K.....231 Penn St., Highspire
ESPENSHADE, JANET L.....880 N. Market St., Elizabethtown
FASNACHT, LOIS A.....455 W. Bainbridge St., Elizabethtown
FIKE, DOROTHY H.....204 E. High St., Elizabethtown
GARMAN, MARION C.....338 Ridge Rd., Elizabethtown
GARRETT, EVELYN V.....518 W. 16th St., New Cumberland
GICHNER, ELOISE A.....R.D. No. 1, Sheridan
GISH, LILLIAN J.....227 Highlawn Ave., Elizabethtown
GOSNELL, ANNA H.....3401 Hillcrest Rd., Harrisburg
GRUBB, HELEN R.....R.D. No. 1, Hummelstown
HAAS, LORENE I.....Elliottsburg
HAINES, MARGARET E.....1211 College Ave., Mt. Rt. B, Elizabethtown
HERSHOCK, LOIS W.....1333 N. Duke St., York
HOLLINGER, LINDA E.....132 Mill St., Manheim
HORNING, M. LOUISE.....Rheems

HUNBERGER, PATRICIA A. ..... 651 W. Cherry St., Palmyra
JONES, BETTY J. ..... 25th & Columbia Sts. Harrisburg
JONES, KAY L. ..... 480 N. Spruce St., Elizabethtown
KILROY, HELEN P. ..... 52 S. Main St., Mahanoy City
KNUTH, GRETCHEN M. ..... 601 N. 3rd St., Steelton
KOMAN MARTHA J. ..... 6231 Elmer Ave., Harrisburg
KOSTELAC, MARGARET A. ..... 392 S. 2nd St., Steelton
KRANCH, LINDA L. ..... R.D. No. 1, Bird-in-Hand
KURTZ ESTHER M. ..... 248 College Ave., Elizabethtown
LANTZY, SHIRLEY R. ..... 460 E. Park St., Elizabethtown
LARGE, DORIS R. ..... 211 S. Broad St., Waynesboro
LEBER, JEANNE E. ..... R.D. No. 9, York
LEROY, BETTY S. ..... R.D. No. 3, Mechanicsburg
MAGEE, ANNA K. ..... Box 35, R.D. No. 1, Lewisberry
MARTIN, MARILYN F. ..... 971 Groff Ave., Elizabethtown
MARTIN, RUTH H. ..... 229 Lemon St., Elizabethtown
MILLER, LOIS K. ..... R.D. No. 1, Bainbridge
MUSSER, AUDREY H. ..... Box 116, Mt. Joy
NEELY, HILDA J. ..... Loysville
NEWCOMER, NANCY A. ..... 337 W. 16th St , New Cumberland
PORTLAND, FLORENCE ..... 306 Fairview St., Pottsville
PURNELL, MYRTLE M. ..... 11 N. Lehigh Ave., Frackville
RADOS, BARBARA K. ..... 4916 Constitution Ave., Harrisburg
RETTINGER, MARIE M. ..... 618 N. 3rd St., Harrisburg
RICE, VIRGINIA M. ..... 18 Judy Lane, Harrisburg
RISSER, EVELYN N. ..... R.D. No. 1, Annville
ROTH, HELEN M. ..... R.D. No. 2, Box 130, Hummelstown
SANDNES, CARROLL R. ..... Mounted Rt., New Cumberland
SANGER, REINETTA M. ..... 935 E. Maple St., Lebanon
SAYLOR, SALLY SUE ..... 247 S. Market St., Elizabethtown
SCHOTT, KATHRYN L. ..... R.D. No. 5, Lebanon
SHAW, ALICE V. ..... 301 Park St., Elizabethtown
SHEPHERD, VIOLA D. ..... 52 Vine St., Highspire
SIEBER, RUTH E. ..... Thompsontown
SUPERKA, LEONA B. ..... 1005 Drexel Hill Blvd., New Cumberland
SWARR, ESTIE M. ..... R.D. No. 1, Mt. Joy
THURSTON, ARNITA L. ..... 2814 Otis St., N.E., Washington 18, D. C.
TOPPIN, MARIAN N. ..... 132 S. Market St., Mt. Joy
TROPS, TAMARA ..... 1009 Columbia Ave., Lancaster
WAGNER, DORIS L. ..... R.D. No. 1, Pine Grove
WALBORN, PATRICIA A. ..... 230 N. Locust St., Palmyra
WARFIELD, SUSAN I. ..... Box 251, Elizabethville
WENTZ, M. PATRICIA ..... Atglen

Workshop in Worship and the Fine Arts

JUNE 1–6, 1959

Men

DOURTE, WILBERT ..... 731 State Dr., Lebanon
FRETZ, JOSEPH E. ..... 1941 Orvilla Rd., Hatfield
KLAUBER, WILLIAM F. ..... 3 E. Louther St., Carlisle
TURNER, ROBERT ..... 900 E. Poplar St., York
WHITE, JAMES T. ..... 71 Front St., Lititz

Women

DRUKENBROD, RUTH E. ..... 514 Pleasure Rd., Lancaster
WEBB, DANEEN K. ..... R.D. No. 1, Box 433, Lancaster

Special Sessions

JUNE 2–SEPTEMBER 5, 1959

Men

AYERS, EARLE R. ..... R.D. No. 3, Tunkhannock
BERELSON, FRANK ..... 621 E. 105th St., Brooklyn 36, N. Y.
CAMPBELL, JAMES O. ..... 202 Glenn Ave., Glenshaw
FOX, RUPERT V. ..... R.D. No. 2, Butler
GALANTE, SALVATORE P. ..... 28 S. Academy St., Glassboro, N. J.
HALTEMAN, LLOYD R. ..... Star Rt., Pottstown
HAMERSHOCK, THOMAS E. ..... 3860 N. Franklin St., Philadelphia 40
HELOCK, MICHAEL G. ..... 130 N. Jardin St., Shenandoah
HOESCH, HARRY J., JR. ..... 9202 Pendleton Pike, Indianapolis, Ind.
HOLT, DONALD I. ..... 925 Coleman Ave., Johnstown

JOHNSON, ROBERT, JR.....3442 N. Lee St., Philadelphia
KENEMUTH, ERNEST E., JR.....45 Willard Ave., Bradford
KENNEDY, RICHARD J.....8820 Pendleton Pike, Indianapolis 26, Ind.
KRAMER, HOWARD.....1007 McKean St., Philadelphia
KUHN, JOHN C.....618 S. Market St., Elizabethtown
LOQUASTO, MICHAEL J.....3676 Mt. View Ave., Easton
MEEHAN, EDWARD D.....714 Allegheny Blvd., Oakmont
NAZARIK, PAUL A.....107-113 116th St., Richmond Hill, N. Y.
NILO, CARL J.....108 Madison Ave., West Hazleton
RAMBACHER, GEORGE A.....1626 Morningside Ave., Pittsburgh 6
ROBSON, GEORGE.....113 S. 2nd St., Wormleysburg
SALTER, F. GAIL.....497 Walnut St., Mt. Mary's
SEYBERT, SHANLEY J.....Marienville
STANGL, ALFRED P.....1037 E. 4th St., Bethlehem
STRAUSS, VERNON.....1000 Parry Ave., Palmyra, N. J.

Women

JONES, DARLESQUA R.....Box 123, Downingtown
KARLHEIM, LEONA M.....R.D. No. 1, Box 14, Patton
MCDONALD, V. TODD.....302 Tenth St., New Kensington
SHEESLEY, GWENDOLYN.....12 Main St., Oberlin

Summary

NUMBER OF STUDENTS, 1959–60

	Men	*Women*	*Total*
Seniors	71	42	113
Juniors	87	55	142
Sophomores	84	83	167
Freshmen	131	122	253
Special	1	1	2
Part-Time	19	36	55
Harrisburg Area Center for Higher Education	123	147	270
Summer Session I	116	65	181
Summer Session II	96	81	177
Workshop in Worship and the Fine Arts	5	2	7
Special Session 1959	25	4	29
Total	758	638	1,396
Names Repeated	177	133	310
Grand Total	581	505	1,086

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GIBBLE SCIENCE HALL

Rider Memorial Hall

ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

I am interested in Elizabethtown College.

- ☐ Send me an Application for Admission form.
- ☐ Arrange an interview for me on the campus.
- ☐ Send me information about honor scholarships.

NAME_____

STREET_____ CITY & STATE_____

HIGH SCHOOL_____ DATE OF GRADUATION_____

DIRECTOR OF ADMISSIONS
ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

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DIRECTOR OF ADMISSIONS
ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

I am interested in Elizabethtown College.

- ☐ Send me an Application for Admission form.
- ☐ Arrange an interview for me on the campus.
- ☐ Send me information about honor scholarships.

NAME_____

STREET_____ CITY & STATE_____

HIGH SCHOOL_____ DATE OF GRADUATION_____

PLACE
STAMP
HERE

OFFICE OF ADMISSIONS

ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

PLACE
STAMP
HERE

OFFICE OF ADMISSIONS

ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

PLACE
STAMP
HERE

OFFICE OF ADMISSIONS

ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

ELIZABETHTOWN COLLEGE BULLETIN

1961-63

ELIZABETHTOWN, PENNSYLVANIA

The Liberal Arts

ELIZABETHTOWN COLLEGE subscribes to the Liberal Arts philosophy of learning, which seeks to deepen and broaden man's knowledge of his heritage and the world in which he lives.

A Liberal Arts eduction is concerned with the molding of the whole man: his appreciation of the beauty of the fine arts through literature and music, his understanding of the physical world through science, his insight to the dynamics of society through the social sciences, his role in the moral universe through philosophy and religion.

The Liberal Arts sharpen the student's ability to think clearly, to reason soundly, to communicate effectively, to measure human values incisively.

Reaching back to encompass the gathered knowledge of the ages, the Liberal Arts are alive and vibrant in the modern world. Their mastery gives new meaning to life.

Elizabethtown College Bulletin

Published Quarterly

Sixty-third Catalog Number

Announcement of Courses 1961–62 and 1962–63

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ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

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Calendar for the 1961-1962 School Year

Academic Year 1961-1962

September 14 Thursday . . . . . Faculty Report
September 14, 15, 16 Thursday, Friday, Saturday—
Faculty Sessions
September 17 Sunday . . . . . New Students Arrive
September 18 Monday—
New Student Orientation and Registration
September 19 Tuesday . . . . Upperclassmen Registration
September 20 Wednesday . . . . . Classes Begin
September 27 Wednesday . . . . Charter Day Convocation
October 21 Saturday . . . . . Homecoming Day
November 13 Monday . . . . . Founders' Day
November 21 Tuesday . . . . . Thanksgiving Recess Begins
November 27 Monday . . . . . Classes Resume
December 19 Tuesday . . . . . Christmas Recess Begins
January 3 Wednesday . . . . . Classes Resume
January 22-31 Monday through Wednesday—
1st Semester Examinations
January 31 Wednesday . . . . . First Semester Ends
February 5 and 6 Monday and Tuesday—
Second Semester Registration
February 7 Wednesday . . . . . Classes Begin
February 7 Wednesday . . . . Mid-year Commencement
March 23 Friday . . . . . Spring Vacation Begins
April 2 Monday . . . . . Classes Resume
April 19 Thursday . . . . . Easter Recess Begins
April 23 Monday . . . . . Classes Resume
May 12 Saturday . . . . . May Day
May 24-June 1 Wednesday through Friday—
Second Semester Examinations
June 1 Friday . . . . . Second Semester Ends
June 2 Saturday . . . . . Alumni Day
June 3 Sunday—10:30 a.m.—
Baccalaureate Service
June 3 Sunday— 3:00 p.m. . . . Commencement

Summer Sessions 1962

June	18	Monday	Summer Session I Begins
July	4	Wednesday—	Independence Day (No Classes)
July	20	Friday	Summer Session I Ends
July	23	Monday	Summer Session II Begins
August	24	Friday	Summer Session II Ends

Calendar for the 1962-1963 School Year

Academic Year 1962-1963

September	13	Thursday	Faculty Report
September	13, 14, 15	Thursday through Saturday—	Faculty Sessions
September	16	Sunday	New Students Arrive
September	17	Monday—	New Student Orientation and Registration
September	18	Tuesday	Upperclassman Registration
September	19	Wednesday	Classes Begin
September	26	Wednesday	Charter Day Convocation
October	20	Saturday	Homecoming Day
November	13	Tuesday	Founders' Day
November	20	Tuesday	Thanksgiving Recess Begins
November	26	Monday	Classes Resume
December	19	Wednesday	Christmas Recess Begins
January	3	Thursday	Classes Resume
January	21-30	Monday through Wednesday—	First Semester Examinations
January	30	Wednesday	First Semester Ends

February	4-5	Monday-Tuesday— Second Semester Registration
February	6	Wednesday . . . . . Classes Begin
February	6	Wednesday . . . . Mid-year Commencement
April	5	Friday . . . . . Easter Recess Begins
April	16	Tuesday . . . . . Classes Resume
May	11	Saturday . . . . . May Day
May	22-31	Wednesday through Friday— Second Semester Examinations
May	31	Friday . . . . . Second Semester Ends
June	1	Saturday . . . . . Alumni Day
June	2	Sunday—10:30 a.m.— Baccalaureate Service
June	2	Sunday—3:00 p.m. . . . . Commencement

Summer Sessions 1963

June	17	Monday . . . . . Summer Session I Begins
July	4	Thursday . . Independence Day (No Classes)
July	19	Friday . . . . . Summer Session I Ends
July	22	Monday . . . . . Summer Session II Begins
August	23	Friday . . . . . Summer Session II Ends

Zug Memorial Library

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The College: Its History and Purpose

SHORTLY BEFORE THE DAWN of the current century, a group of earnest men, all members of the Church of the Brethren, strode purposefully across the broad acres of farm land that were to become the campus of Elizabethtown College.

On a slight hill they stopped, looked over the surrounding countryside, and then quietly agreed that this was the site for which they were looking. The hill on which they stood became the location for Alpha Hall, the first building of the new college.

A charter for the college was received from the Commonwealth of Pennsylvania on September 23, 1899. Classes officially began in November of the following year.

Supported at first by individual contributions, the College in time became the responsibility of the Eastern and Southern Pennsylvania Districts of the Church of the Brethren. The Church officially assumed the responsibility for operating the College in January, 1919.

With the advancing years, the College grew in the size of its enrollment, the extent of its physical facilities, and the quality of its curriculum.

Formal accreditation was granted in 1921 by the Pennsylvania Department of Public Instruction and in 1948 by the Middle States Association of Colleges and Secondary Schools.

Elizabethtown College has taken its place in the circle of American higher education. It holds membership in the Association of American Colleges and the American Council on Education. It has been approved by the American Association of University Women.

"Harmonious Development"

In the words of the founding fathers, as recorded in the original charter, the purpose of the College is "to give such harmonious development to the physical, mental, and moral powers of both sexes as will best fit them for the duties of life and promote their spiritual interests."

Elizabethtown College is, in every aspect of its program, a Christian institution. Its facilities are open to all without discrimination.

Deeply rooted in the philosophy of the College are the beliefs that a clean body and a clear mind are basic requirements for a Christian life, that men and women can serve God through any vocation which serves the needs of mankind, that life in college requires hard work and firmness of purpose, that genuine culture is the result of knowledge coupled with Christian character.

Broadly stated, the purpose of Elizabethtown College is to train students through a balanced program of Christian living, sound academic studies, physical fitness, and social insight. All aspects of life on the campus are included in this program.

The Campus

IN MANY RESPECTS, the personality of a college is reflected by its campus, which provides the physical setting for its various activities: academic, spiritual, social.

Students at Elizabethtown College live and work on a 75-acre campus, which includes a broad dell, a lake, and numerous trees. The general setting is one of quiet, natural beauty.

The main buildings, strategically located in relation to each other, are designed in modern colonial architecture, which blends well with the surrounding landscape.

Alpha Hall, the oldest building, is the administrative center of the campus. Facilities located here include the business office, student admissions, student records and services, public relations, and various administrative offices.

Fairview Hall is one of the smaller women's dormitories with facilities for housing 56 students.

Gibble Science Hall, recently enlarged by the addition of a new wing, provides well-equipped laboratories for students in chemistry, biology, and physics. In addition, there are several well-designed classrooms and the large Brinser Lecture Hall.

Myer Hall, a women's dormitory, one of the more recent additions to the campus, has living accommodations for 132 students. The College Dining Room, which can seat as many as 360 comfortably, is located in one wing of the building.

Ober Hall, a men's dormitory completed in 1960, is the largest building on the campus. It has pleasant living facilities for 230 students, including lounges, laundry rooms, game rooms, and an infirmary.

Rider Hall, located near the center of the campus, is used primarily as a classroom building. A lounge for day students is also located here.

Zug Memorial Library is centrally located for easy access by students. It contains approximately 30,000 volumes of refer-

ence material. In addition, there are approximately 250 selected periodicals, a microfilm scanner, and record-playing facilities available.

Other buildings on the campus include West Hall, a small dormitory for women; the Business Education Building and North Hall, both of which contain classroom facilities; South Hall, used for faculty offices; and the College Store, which includes a small snack bar and post office. There are also several small residences used as honors houses for women students.

Under construction and scheduled for use by the fall of 1962 are two buildings: a women's dormitory with living accommodations for 130 students and a Student Union Center. The latter is being built around the Student-Alumni Gymnasium. It will include a large snack bar, post office facilities, conference rooms, locker rooms, bowling alleys, and a swimming pool.

Myer Hall

Location

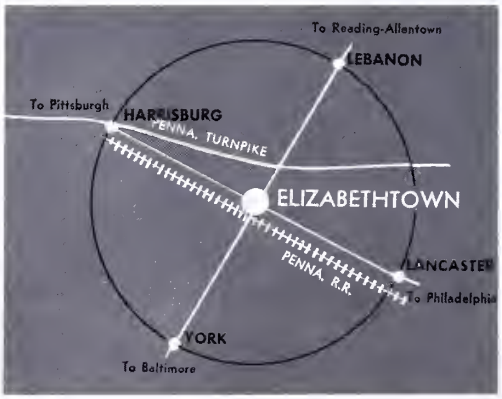
THE 75-ACRE ELIZABETHTOWN COLLEGE campus is located in Elizabethtown, a small residential community in Lancaster County with a population of slightly under 7,000.

The surrounding area contains some of the most desirable agricultural country in the Nation as well as prosperous industrial centers producing a wide variety of commodities, including steel, aluminum, building materials, appliances, and timepieces.

Elizabethtown is situated in the midst of several of the larger communities in southeastern Pennsylvania, including Lancaster, Lebanon, Harrisburg, York, and Reading. It is approximately a hundred miles from such metropolitan centers as Philadelphia, Baltimore, and Washington, D.C.

Elizabethtown has complete facilities for shopping, banking, and other personal services.

Access to Elizabethtown can be had directly by the Pennsylvania Railroad and U. S. Route 230. An interchange of the Pennsylvania Turnpike is available at Highspire, approximately ten miles from Elizabethtown on Route 230.



The Academic Program

THE INFORMATION IN THE COLLEGE BULLETIN is the student's guide for the planning of his courses for the fulfillment of his degree requirements. Faculty advisors and administrative counselors work with him for each semester's registration. However, the student is expected to be familiar with the information in the bulletin and is personally responsible for arranging a program meeting all requirements for his degree.

Admission to the College

From the young men and women who apply for admission to Elizabethtown College, those whose records of character, scholarship, and health suggest that they are fitted to do acceptable college work are selected.

Certain guiding principles are used as applications are evaluated:

1. That the student be a graduate of a senior high school accredited by the Middle States Association of Colleges and Secondary Schools or by the Department of Education of the state in which he lives.
2. That he be recommended by his high school principal and/or guidance counselor.
3. That he have completed the following secondary school work: English, 3 years; History and Social Studies, 2 years; Language, 2 years; Mathematics, 2 years; Science, 1 year; other subjects, 5 units of work.
4. That he take the Scholastic Aptitude Test given by the College Entrance Examination Board. (The application blank for the test and a Bulletin of Information may be obtained by writing to The College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.) In certain cases applicants may petition the Director of Admissions to substitute for this examination the Elizabethtown College Equivalent Examination, given on campus for a fee of $10.00.

If a student has not completed the exact courses outlined in item 3 above, but is deemed, through test scores or other means of evaluating his potential, qualified for entrance, he may be admitted.

The student wishing to enter Elizabethtown College should write to the Director of Admissions for an application blank and advisably for an interview on campus unless he has been interviewed by a College representative off-campus.

After admission and before entrance into college, a student must supply a physician's report of good health on a form sent to him by the Director of Admissions.

Admission to Advanced Standing

Students may be admitted to advanced standing up to the beginning of the senior year on the following bases:

BY EXAMINATION. Examinations are given only to those who have teaching experience or practical work in the subjects in which the examination is sought, or to those who have pursued such courses under approved instruction. Tests taken for advanced standing will be graded passing or failing. Neither letter grades nor quality points will be given. No examinations will be given for advanced standing credit during the senior year. The cost of these examinations is $10.00 per semester hour credit.

FROM OTHER COLLEGES. The transfer student must present a secondary school record together with an official transcript indicating work completed at and honorable dismissal from any college or all colleges which he has attended.

For the student entering Elizabethtown College by transfer, a minimum of 96 semester hours will be required for graduation if he has attended another college for one year, 64 semester hours if for two years, and 32 semester hours if for three years.

All students who transfer to Elizabethtown College are required to pass a competency examination in English. Students who fail to meet the minimum standards are required to enroll in En 101 English Composition and will not be granted credit for a similar course in transfer.

Veterans Entering Elizabethtown College

Elizabethtown College is approved for the training of veterans under Public Laws 550 (Korean), 16 and 894 (Rehabilitation Acts), and 634 (War Orphans).

All veterans who are admitted under the provisions of one of the public laws must furnish the treasurer of the college with a certificate of eligibility and entitlement on the day of registration or before. This certificate is procured from the Regional Office of the Veterans Administration. Veterans are urged to

apply for educational benefits two months before they expect to enter college.

The veteran is personally responsible to the college for the payment of fees on regularly scheduled dates for payment.

Handicapped Students at Elizabethtown College

Elizabethtown College admits a limited number of handicapped students. Such students are asked to give evidence of satisfactory arrangements for care and movement to and from classes and about the campus before final acceptance will be granted. The College cannot assume any responsibility for classroom or dormitory adjustments, or provide special tutoring or other assistance. A physician's personal statement concerning capabilities and limitations of the student must be presented.

The Curricula

Elizabethtown College offers courses leading to three degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Education.

A student may select as a major in the Bachelor of Arts program any of the following: Bible and Philosophy, English, Foreign Language, History and Political Science, Mathematics, Social Studies, or Sociology and Psychology.

In the Bachelor of Science program he may choose Accounting, Biology, Business Administration, Chemistry, Mathematics, Medical Technology, Nursing, or Pre-medical sciences.

The student pursuing the Bachelor of Science degree in Education may major in Business Education, Elementary Education, or Secondary Education.

Requirements for the three degrees with the various majors are set forth on pages 19 through 47 in this bulletin.

In all curricula in which a two-year language requirement is indicated, the completion of the second college year will meet the requirement. A student having completed two years of a language in high school will not receive college credit if he enrolls for the first year of the same language.

The Student's Program

The entering freshman is admitted into one of the degree programs indicated above. The work of his first two years is prescribed to a large extent to ensure him a foundation in general

education and enable him to select his field of concentration wisely.

In most curricula a wide range of electives is offered in the junior and senior years. The student will take the prescribed courses outlined for each consecutive year. The College is not responsible to arrange the scheduling of courses out of sequence. To change from one curriculum to another, the student must secure permission from the Dean.

Since the completion of 128 semester hours of work is required for a degree, a student's program must include an average of 16 semester hours for each of the eight semesters of a four year program. Normally he may carry up to 18 semester hours of work in any given semester.

With his faculty adviser he arranges each semester's program to include the courses outlined in the catalog for the curriculum which he is pursuing. His electives are chosen with the approval of his adviser.

A student who has achieved a cumulative quality point-credit ratio of 3.0 or above may carry up to 20 semester hours credit in a semester and may complete his work in a minimum of three years and twenty weeks. The maximum number of semester hours any student may carry in a given semester is 20. For each semester hour above 18 for which a student is enrolled in a given semester, the fee is $30.00.

Absences and Withdrawal

The college requires of all students regular and punctual attendance at all classes and laboratory sessions.

Absences will be dealt with separately in each course. Students are permitted two cuts per credit in each course during the semester. These cuts are to be utilized by students for valid reasons only. Should a student exceed the permitted number of absences, he must present to the Dean of Instruction acceptable excuses for all absences. In case such excuses are unsatisfactory, the student will automatically receive a grade no higher than "D" for the course in question unless the instructor recommends otherwise.

Absences immediately preceding and immediately following cataloged vacations will be counted double.

A student who is absent when an examination is given must secure permission from the Dean of Instruction in order to take the examination. For a make-up examination which he is permitted to take, he will be charged $1.00 per semester hour except

in the case of final examinations for which he will be charged $2.00 per semester hour.

Withdrawal from any class or from college is effected through the Office of the Dean. The student is responsible to notify the Dean in person or in writing. For purposes of billing and responsibility for class attendance, the date of notification to the Dean is his official date of withdrawal. Withdrawal without notification calls for no refund in tuition.

Credits, Grades, and Quality Points

Credit is indicated in terms of the semester hour. Each semester hour unit signifies work completed in one fifty-minute recitation or two or more fifty-minute laboratory periods per week for a semester of sixteen to eighteen weeks or in an equivalent amount of time in summer sessions.

Grades are reported for work as follows: *A*, excellent; *B*, good; *C*, satisfactory; *D*, poor; *F*, failing; *W*, withdrawal, with the grade earned at the time of withdrawal from class. (All withdrawals must be approved by the adviser and the Dean of Instruction. Withdrawal without approval effects automatically a grade of *F*); *I*, work incomplete. If a grade of *I* is not removed within one semester after the close of a course, the grade recorded on the permanent record automatically becomes an *F*.

Quality points ar given for credits as follows: for a grade of *A*, 4 per semester hour; *B*, 3 per semester hour; *C*, 2 per semester hour; *D*, 1 per semester hour; *F*, no quality points.

Academic Requirements and Class Standing

The academic success of a student is measured in terms of grades and quality points. Although a grade of *D* is passing, a grade of *C* is considered the lowest satisfactory grade. When a student falls below a cumulative quality point-credit ratio of 2.0, which represents an average grade of *C*, he is in academic difficulty and will therefore be permitted to carry a maximum of 15 semester hours in a given semester so that he may improve his situation. Only when his cumulative ratio has again reached 2.0 will he be permitted to carry 16 to 18 semester hours' work in a given semester. When a student has a quality point deficiency, the Dean will call him for a conference.

If at the end of his first semester in college the student has a cumulative quality point-credit ratio below 1.7, at the end of

his second semester below 1.8, at the end of his second year below 1.9, or at the end of his third year below 2.0, he is placed on academic probation. A student on academic probation may be requested to withdraw from college anytime the administration so decides after a consideration of his over-all situation.

The student's class standing is determined on the basis of the number of credits and quality points he has earned. With a minimum of 30 credits and 60 quality points, he is a sophomore; 60 credits and 120 quality points, a junior; and 90 credits and 180 quality points, a senior.

Except in cases in which the curriculum outlines in the catalog such courses during the junior and senior years, a student who has earned 70 credits will not be given semester hour credit or quality points for courses numbered below 200; once he has earned 108 credits, he will not be given semester hour credit or quality points for courses numbered below 300. He may, however, take these courses to fulfill specific graduation requirements.

Prizes

Each year a number of individuals, organizations, and corporations confer various awards and prizes for specific accomplishments in divergent areas. Among the established prizes are The Royer Bible Prize, the Weaver Biology Prize, the Butterbaugh Chemistry Prize, the Kettering Accounting Prize, the Raffensperger Journalism Prize, the Dr. John Robert Gregg Memorial Medal, the Weaver-Zeigler Prize, the Accounting Award, the Wall Street Journal Award, and others.

Information concerning these and other prizes and awards may be obtained from the Dean of the College or heads of departments involved.

Dean's List and Graduation with Honors

A student having earned an average grade of $B+$, a quality point-credit ratio of 3.50 or above, is regarded by the college as having performed with distinction.

In every quarter in which a student earns a quality point-credit ratio of 3.50 or above, his name will appear on the Dean's list of honor students for the quarter.

At the time of his graduation, a student who has achieved a cumulative quality point-credit ratio of 3.50 will be graduated with *cum laude* distinction; with a ratio of 3.75, his honor will

be *magna cum laude;* with a ratio of 3.90, he will receive *summa cum laude* distinction. A transfer student will receive honors only if he has earned 60 semester hours credit at Elizabethtown College, if his total quality point-credit ratio is at least 3.50 and if his ratio at Elizabethtown College is at least 3.50. Having met these requirements, he will receive the honor indicated by his ratio on his Elizabethtown College work alone.

Graduation from Elizabethtown College

To be graduated from Elizabethtown College, the student must complete 128 semester hours credit, or in the case of engineering, medical technology, and nursing majors the number indicated in the course outline, and all of the specific courses indicated, together with the requirements for his major field. No more than ten semester hours' credit in Workshop courses is applicable towards a degree; a Workshop in any area will be counted no more than two times.

His requirements will be governed by the catalog dated four years prior to his graduation.

In order for the student to meet graduation requirements, he must have earned a minimum of 30 semester hours in classes on the Elizabethtown College campus and a minimum of 30 semester hours in courses numbered 300 and above from Elizabethtown College.

Every graduate is required to have been in attendance in college for a minimum of three years and thirty weeks unless he has earned a cumulative quality point-credit ratio of at least 3.0, in which case he may complete his work in three years and twenty weeks.

Elizabethtown College will graduate only those students who have met the moral and financial obligations incurred while they have been in pursuit of their college courses. The completion of the required number of semester hours does not in itself constitute eligibility for graduation.

Degrees will not be granted *in absentia* without special permission by the Administrative Committee.

It is the responsibility of the candidate for a degree in February, May, or August to make formal application for the degree in writing to the Dean of Instruction at least four weeks before graduation.

Cooperative Program of Undergraduate Study Abroad

The six colleges associated with the Church of the Brethren are cooperating in a junior year of study at Marburg, West Germany, to begin in the fall of 1962. Courses will be offered in such areas as literature, history, religion, philosophy, international relations, political science, economics, cultural anthropology, and possibly art and music history. Most of the program in any given year will be taught by an American professor from one of the cooperating colleges. However, it will be possible for at least some of the students to take one or more courses at the university, the official name of which is Philipps-Universität, Marburg/Lahn.

Students interested in this program should have had at least two years of college level study in the German language. Further provision for orientation to the German language, as well as to the culture generally, will precede the opening of the program in the fall. In addition to an adequate knowledge of the language, the qualifications include intellectual capacity, seriousness of purpose, good character, demonstrated potential for social adjustment, a basic understanding of the United States and the host country, good health, and initiative.

The program will accommodate approximately 25 students each year. Elizabethtown College has a quota of four. Further information may be obtained from the Dean of the College.

Curricula

Requirements for the Bachelor of Arts Degree

Total Semester Hour Requirement, 128

General Requirements for Freshman and Sophomore Years

		S. H.
	FRESHMAN YEAR	
Bi 101-102	Survey of Biblical History	4
En 101-102	English Composition	6
Hi 101-102	History of Western Civilization	4
PE 101-102	Physical Education for Women	2
	or	
PE 103-104	Physical Education for Men	2
Ps 101-102	General Psychology*	4
	Language	6
	Mathematics*	6

*For the mathematics major, Ma 101-102 Mathematical Analysis or its equivalent is required, and a general Social Studies requirement is indicated (See outline on page).

	SOPHOMORE YEAR	
En 201-202	Survey of English Literature*	6
	or	
En 207 208	World Literature	6
PE 201-202	Advanced Physical Education for Women	2
	or	
PE 203-204	Advanced Physical Education for Men	2
	European History*	6
	Language	6
	Science**	8

*For the English major, Survey of English Literature and English History are required.

**For the Sociology and Psychology major, Bio 101-102 General Biology is required.

Additional Requirements for the Bachelor of Arts Degree (By Major)

Bible and Philosophy

		S. H.
	SOPHOMORE YEAR	
	Christian Education	3
Ph 351	Ethics	3
	JUNIOR YEAR	
En 321	Speech	2
Ph 352	History of Philosophy	3
	History and/or Political Science	6
	Literature	4
	Social Science	6-9
	SENIOR YEAR	
Ph 499	Seminar in Philosophy and Religion	2-4
	Social Science	6-12

Total number of semester hours required in the department —28.

English

		S. H.
	SOPHOMORE YEAR	
En 205-206	American Literature	4
	JUNIOR YEAR	
En 305-306	Shakespeare	4
En 321	Speech	2
	History and/or Political Science	6
	Social Science	6
	SENIOR YEAR	
En 499	Senior Seminar in English	2
Ph 351 or 452	Ethics or History of Philosophy	3

Total number of semester hours required in the department —38.

Foreign Language

		S. H.
	SOPHOMORE YEAR	
	A second language	6
	JUNIOR YEAR	
En 321	Speech	2
	History or Political Science	6
	Literature	4
	Sociology or Economics	6
	SENIOR YEAR	
Ph 451 or 452	Ethics or History of Philosophy	3

Total number of semester hours required in the department —24 in the first language, 12 in a second.

History and Political Science and Social Studies

		S. H.
	SOPHOMORE YEAR	
	For History and Political Science—	
	Economics and/or Sociology	6
	For Social Studies—	
BA 201	Principles of Economics	3
So 151	Introduction to Sociology	3
	JUNIOR YEAR	
En 321	Speech	2
Hi 301-302	History of the United States and Pennsylvania	6
	Literature	4
	SENIOR YEAR	
Ph 451 or 452	Ethics or History of Philosophy	3
PS 352	American National Government	3

Total number of semester hours required in the department for the History and Political Science major—32.
Total number of semester hours required in the field for the Social Studies major—42.

Mathematics

		S. H.
	SOPHOMORE YEAR	
Ms 201-202	The Calculus*	8
	Social Science	4

*Substitute for European History in General Requirements.

	JUNIOR YEAR	
Ma 301-302	Linear Algebra*	4
Ma 311	Differential Equations*	3
Ma 312	Partial Differential Equations*	3
	History or Political Science	6
	Literature	4

	SENIOR YEAR	
Ma 314	Mathematical Statistics*	3
Ma 403	Advanced Calculus*	3
Ph 351 or 352	Ethics or History of Philosophy	3

*For students obtaining secondary education certification, a minimum of 33 semester hours in Mathematics are required; only six of these hours need be in courses for which Ma 201 and 202 are prerequisite.

The total requirement in Social Studies is 14 semester hours. Ed 203 Educational Psychology may be counted in this total.

Sociology and Psychology

		S. H.
	SOPHOMORE YEAR	
So 151	Introduction to Sociology	3
So 152	Social Problems	3

Junior Year

En 321	Speech	2
Hi 301-302	History of the United States and Pennsylvania	6
Ps 321	Mental Hygiene	3
Ps 331	Social Psychology	3
So 304	Cultural Anthropology	3
So 306	Intergroup Relations	3
	Literature	4

Senior Year

Ph 451	Ethics	3
Ph 452	History of Philosophy	3
Ps 342	Psychological Statistics	3
PS 352	American National Government	3

Total number of semester hours required in Sociology and Psychology—37; in the junior and senior years, electives in the field must be chosen as follows: 12 semester hours in Sociology, 12 semester hours in Psychology, or 9 semester hours in one and 3 in the other.

Requirements for the Bachelor of Science in Education Degree

General Requirements For Teachers

The Commonwealth of Pennsylvania has established the following Professional Education Requirements for all teachers:

Eighteen semester hours of professional education courses distributed in the following areas:

1. Social foundations of education
2. Educational Psychology and human growth and development
3. Materials and methods of instruction and curriculum (Related to subject matter specialization field or fields)
4. Actual practicum and student teaching (Related to the subject matter specialization field or fields)

With these courses a student in the Liberal Arts or Science curricula will be certified to teach in the area of his concentration if it be Biology, Chemistry, English, Foreign Language, History and Political Science, Mathematics, or Social Studies. A Liberal Arts or Science student may be certified to teach in the elementary schools with the eighteen semester hours in professional education listed above in addition to the following courses:

1. A course in the teaching of reading
2. Fifteen semester hours selected from a minimum of four of the following areas in Elementary Education: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

Major in Business Education

Total Semester Hour Requirement, 128

Requirements other than those for general secondary certification

A. Business education may be written on a provisional col-

lege certificate upon the completion of thirty-six semester hours including twelve semester hours distributed in at least four of the following subjects: bookkeeping, organization and management, office practice*, principles of selling, economics, and law pertinent to this field;

and

B. Upon the completion of the requirements of two or more of the following areas:

Bookkeeping	12 semester hours
Retail selling	9 semester hours
Shorthand	9 semester hours
Typewriting	6 semester hours

The interpretation of the above is as follows:

"Business education written on the certificate is valid for teaching general business, law pertinent to this field, office practice and principles of selling provided two (or more) of the following areas are also written on the certificate: bookkeeping, retail selling, shorthand, and/or typewriting."

REGULATIONS

A person certificated in English may teach English pertinent to the field of business education and/or a person certificated in mathematics may teach mathematics pertinent to business education.

A person certificated in business education may teach English pertinent to this field upon the completion of eighteen semester hours in English.

A person certificated in business education may teach mathematics pertinent to this field upon the completion of eighteen semester hours in mathematics.

*Required course.

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Ac 101-102	Principles of Accounting	3	3
Bi 101-102	Survey of Biblical History	2	2
Ed 151	Introduction to Education		3
En 101-102	English Composition	3	3
Ma 151 or 153	Basic Mathematics or College Algebra	3	
Ma 162 or 168	Mathematics of Business or Mathematics of Finance		3
PE 101-102 or 103-104	Physical Education	1	1
Ps 101-102	General Psychology	2	2
So 154	Introduction to Sociology	3	
	Sophomore Year		
BA 201-202	Principles of Economics	3	3
Ed 203	Educational Psychology	3	
Ed 204	Educational Sociology		3
PE 201-202 or 203-204	Advanced Physical Education	1	1
	Science Electives*	4	4

*Students desiring to elect accounting, shorthand, and typewriting should postpone the physical education credits until the junior or senior years.

		1st Sem. S. H.	2nd Sem. S. H.
	Junior Year		
BA 331-332	Business Law	3	3
BEd 214	Secretarial Office Practice		3
En 207-208 or 201-202	World Literature or English Literature	3	3

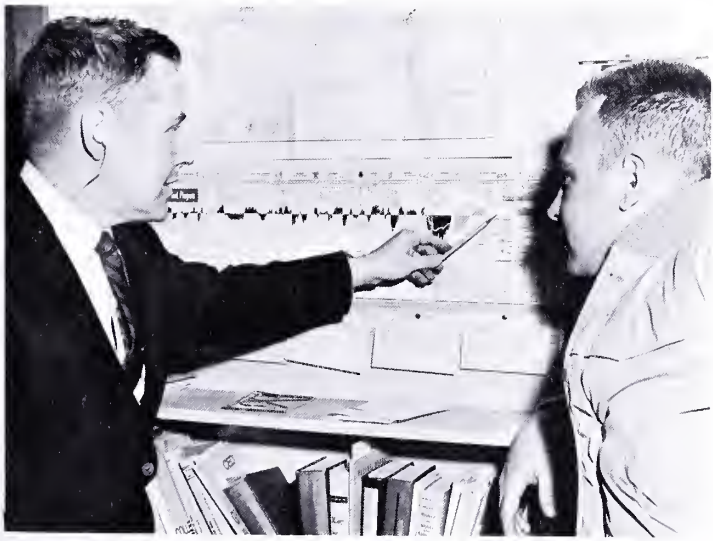
Hi 303-304	History of United States and Pennsylvania	3	3
Ph 351 or 352	Ethics or History of Philosophy	3	
	Electives*		

SENIOR YEAR

Ed 302	Visual Education		2
Ed 336	Methods and Principles of Business Education	3	
Ed 403-404	History and Philosophy of Education	3	3
Ed 451	Practice Teaching**	8	
Ed 499	Senior Seminar in Education**	2	
	Electives*		

*Students desiring to elect accounting, shorthand, and typewriting should postpone the physical education credits until the junior or senior years.

**The work of these courses may be taken in either semester.



Requirements for the Bachelor of Science in Education Degree

Major in Elementary Education

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Bi 101-102	Survey of Biblical History	2	2
Ed 154	Introduction to Education		3
En 101-102	English Composition	3	3
Hi 101-102	History of Western Civilization	2	2
or	or		
Geog 103-104	World Geography		
	Language or Mathematics	3	3
PE 111-112	Health and Hygiene	1	1
Ps 101-102	General Psychology	2	2
So 151	Introduction to Sociology	3	
	Sophomore Year		
Bio 101-102	General Biology	4	4
Ed 203	Educational Psychology	3	
Ed 204	Educational Sociology		3
En 207-208	World Literature	3	3
Geog 103-104 or Hi 101-102	World Geography or History of Western Civilization	2	2
Hi 303-304	History of the United States and Pennsylvania	3	3
PE 211-212	Elementary Games and Activities	1	1
	Electives*		

*A minimum of two semester hours beyond Bi 101-102 are to be elected in the Department of Bible and Philosophy before the end of the senior year.

		1st Sem. S. H.	2nd Sem. S. H.
	Junior Year		
Ed 315-316	Teaching of Reading and Language Arts	3	3
Ed 318	Teaching of Music in the Elementary School		3
Ed 352	Teaching of Social Studies		3
En 352	Children's Literature	3	
Mu 101	Fundamentals of Music	3	
Phy 203-204	Physical Science	3	3
	Electives*		

*A minimum of six semester hours beyond the survey course are to be elected in a non-professional area.

	Senior Year		
Ed 313-314	Teaching of Arithmetic and Science	3	3
Ed 322	Teaching of Public School Art*		3
Ed 403-404	History and Philosophy of Education	3	3
Ed 451	Practice Teaching*	8	
Ed 499	Senior Seminar in Education*	2	
Hu 251	History and Appreciation of Art*	2	

*The work of these four courses may be taken in either semester.

Requirements for the Bachelor of Science in Education Degree

Major in Secondary Education

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Bi 101-102	Survey of Biblical History	2	2
Ed 154	Introduction to Education		3
En 101-102	English Composition	3	3
Geog 103-104 or Hi 101-102	World Geography or History of Western Civilization	2	2
	Language or Mathematics	3	3
PE 101-102 or 103-104	Physical Education	1	1
Ps 101-102	General Psychology	2	2
So 151	Introduction to Sociology	3	3
	Sophomore Year		
Ed 203	Educational Psychology	3	
Ed 204	Educational Sociology		3
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
Hi 303-304	History of the United States and Pennsylvania	3	3
PE 201-202 or 203-204	Advanced Physical Education	1	1
	Science Electives*	4	4

Junior Year

Ed 331-332	Principles and Practices of Secondary Education	3	3
Ed 334	Educational Measurements		3
Ph 351 or 352	Ethics or Philosophy	3	
	Electives*		

*See notation on electives.

Senior Year

Ed 302	Visual Education		2
Ed 403-404	Histroy and Philosophy of Education	3	3
Ed 451	Practice Teaching**	8	
Ed 499	Senior Seminar in Education**	2	
	Electives*		

**The work of these courses may be taken in either semester.

*Electives

Electives should be in areas in which a student wishes to be certified. State requirements are as follows:

	Semester Hours
English	36
Foreign Language	24
History	24
History and Government	24
Mathematics	24
Biology	24
Chemistry	24
Physics	24
Physics and Mathematics	24

General Science—24 semester hours covering 2 or more sciences.

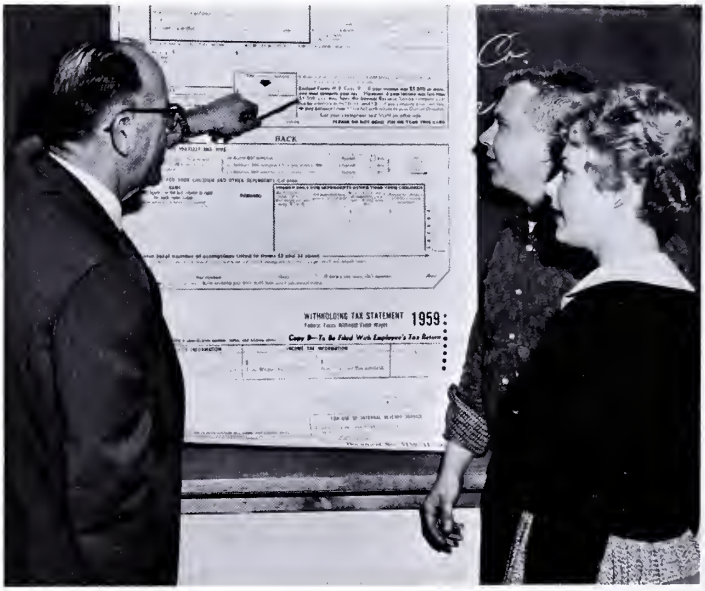
Comprehensive Science—40 semester hours, consult advisor.

Social Studies—36 semester hours, consult advisor.

Requirements for Certification in Special Education

For certification to teach the mentally retarded, the teacher certified in elementary education should elect the following courses, in proper sequence and with correct prerequisites:

Ed 310	Special Class Methods
Ed 320-330	Arts and Crafts for Special Classes
Ed 350	Special Class Teaching
Ps 310-320	Psychology of Exceptional Children



Requirements for the Bachelor of Science Degree

Major in Accounting

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	FRESHMAN YEAR		
Ac 101-102	Principles of Accounting	3	3
Bi 101-102	Survey of Biblical History	2	2
En 101-102	English Composition	3	3
Hi 101-102	History of Western Civilization	2	2
Ma 153 or 154	Basic Mathematics or College Algebra	3	
Ma 162 or 168	Mathematics of Business or Mathematics of Finance		3
PE 101-102 or 103-104	Physical Education	1	1
Ps 101-102	General Psychology	2	2
	SOPHOMORE YEAR		
Ac 201-202	Cost Accounting	3	3
	Bible		2
BA 201-202	Principles of Economics	3	3
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
PE 201-202 or 203-204	Advanced Physical Education	1	1
	Science	4	4
So 151	Introduction to Sociology	3	

JUNIOR YEAR

Ac 301	Intermediate Accounting	3	
Ac 302	Advanced Accounting		3
BA 323	Money and Banking	3	
BA 324	Corporation Finance		3
BA 331-332	Business Law	3	3
BA 343	Introduction to Statistics	3	
BA 344	Advanced Business Statistics		3
	History	3	3

SENIOR YEAR

Ac 401-402	Auditing	3	3
Ac 411	Tax Accounting	3	
Ac 412	CPA Problems		3
BA 424	Statement Analysis		2
BA 431-432	Advanced Business Law	1	1
BA 467	Personnel Administration	3	
BA 468	Industrial and Labor Relations		3
Ph 351	Ethics		3
PS 352	American National Government	3	
	Electives		

Requirements for the Bachelor of Science Degree

Major in Biology

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	FRESHMAN YEAR		
Bi 101-102	Survey of Biblical History	2	2
Bio 101-102	General Biology	4	4
En 101-102	English Composition	3	3

(See next page)

PE 101-102 or 103-104	Physical Education	1	1
Ps 101-102	General Psychology	2	2
Option A			
Ma 101-102	Mathematical Analysis	5	5
Option B			
Ma 151-153 or Ma 153-154	Basic Mathematics and College Algebra College Algebra and Trigonometry	3	3
	Language	3	3

SOPHOMORE YEAR

	Biology in keeping with objective	3 or 4	3 or 4
Ch 101-102	Inorganic Chemistry	4	4
En 201-202 or 207-208	Survey of English Literature World Literature	3	3
Option A			
Ma 201-202	The Calculus	4	4
	Language	3	3
Option B			
Ed 154	Introduction to Education	3	
PE 201-202 or 203-204	Advanced Physical Education	1	1
So 151	Introduction to Sociology		3
	Mathematics* or Language	3	3

*Ma 154 Trigonometry must be completed by the end of the sophomore year.

JUNIOR YEAR

Option A			
	Biology in keeping with objective	3 or 4	3 or 4
Ch 201	Qualitative Analysis	5	
Ch 202	Quantitative Analysis		5
	Language	3	3

(See next page)

	Social Studies	3	3
PE 201-202 or 203-204	Advanced Physical Education	1	1
Option B			
	Biology in keeping with objective	3 or 4	3 or 4
Ed 203	Educational Psychology	3	
Ed 204	Educational Sociology		3
Ed 332	Principles and Methods of Secondary Education		3
Phy 201-202	General Physics	4	4
Hi 301	History of the United States and Pennsylvania	3	
	SENIOR YEAR		
Option A			
	Biology in keeping with objective	4	4
Ch 301-302	Organic Chemistry	4	4
Ph 351 or 352	Ethics or History of Philosophy	3	
Phy 201-202	General Physics	4	4
	Social Studies	3	
	Electives		
Option B			
	Biology in keeping with objective		7 or 8
Ed 403-404	History and Philosophy of Education	3	3
Ed 451	Practice Teaching	8	
Ed 499	Senior Seminar in Education	2	
	Electives		

Option A is the curriculum outlined for the student expecting to pursue graduate work in Biology.

Option B is the curriculum outlined for the student wishing to earn a Bachelor of Science degree and to teach Biology.

A minimum of 18 semester hours in Biology beyond Bio 101-102 is required.

Requirements for the Bachelor of Science Degree

Major in Business Administration

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Ac 101-102	Principles of Accounting	3	3
Bi 101-102	Survey of Biblical History	2	2
En 101-102	English Composition	3	3
Hi 101-102	History of Western Civilization	2	2
Ma 153 or 154	Basic Mathematics or College Algebra	3	
Ma 162 or 168	Mathematics of Business or Mathematics of Finance		3
PE 101-102 or 103-104	Physical Education	1	1
Ps 101-102	General Psychology	2	2
	Sophomore Year		
	Accounting	3	3
BA 201-202	Principles of Economics	3	3
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
PE 201-202 or 203-204	Advanced Physical Education	1	1
	Science	4	4
So 151	Introduction to Sociology	3	
	Electives		

JUNIOR YEAR

BA 323	Money and Banking	3	
BA 324	Corporation Finance		3
BA 331-332	Business Law	3	3
BA 343	Introduction to Statistics	3	
BA 344	Advanced Business Statistics		3
	Bible		2
	History	3	3
	Electives		

SENIOR YEAR

BA 405	Economic Geography	3	
BA 406	World Resources and Industries		3
BA 467	Personnel Administration	3	
BA 468	Industrial and Labor Relations		3
Ph 351	Ethics		3
PS 352	American National Government	3	
	Electives		

Requirements for the Bachelor of Science Degree

Major in Chemistry*

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	FRESHMAN YEAR		
Ch 101-102	Inorganic Chemistry	4	4
En 101-102	English Composition	3	3
	Language	3	3
Ma 101-102	Mathematical Analysis	5	5
	Electives		

SOPHOMORE YEAR

Ch 201	Qualitative Analysis	5	
Ch 202	Quantitative Analysis		5
	Language	3	3
Ma 201-202	The Calculus	4	4
Phy 201-202	General Physics	4	4
	Electives		

JUNIOR YEAR

Ch 301-302	Organic Chemistry	4	4
	Electives as indicated below		

SENIOR YEAR

Ch 401-402	Physical Chemistry	4	4
	Electives as indicated below		

*This constitutes a minimum major and will be approved when electives are taken to complete one of the following situations:

a. Secondary education certification.
b. Pre-medical preparation including Biology 101-102, Biology 201-202, and Biology 306.
c. A.C.S. standards including Chemistry 321, 421, 422 and German 201-202.

The following must be elected:

Survey of English Literature or World Literature	6 hours
Bible	6 hours
History (including Hi 301 or 302 or PS 352)	6 hours
Physical Education	4 hours

Ten semester hours must be elected in these fields:

Psychology	Economics
Philosophy	Ethics
Sociology	

Requirements for the Bachelor of Science and Liberal Arts Degrees

Major in Engineering

Total Semester Hour Requirement, 103
in Addition to the 2-year Engineering Program

		1st Sem. S. H.	2nd Sem. S. H.
	FRESHMAN YEAR		
Ch 101-102	Inorganic Chemistry	4	4
Dr 114-115	Drawing and Descriptive Geometry	2	2
En 101-102	English Composition	3	3
Hi 101-102	History of Western Civilization	2	2
Ma 101-102	Mathematical Analysis	5	5
PE 103-104	Physical Education	1	1
	SOPHOMORE YEAR		
BA 201	Principles of Economics	3	
Bi 102	Survey of Biblical History		2
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
En 321	Speech		2
	Language	3	3
Ma 201-202	The Calculus	4	4
PE 203	Advanced Physical Education	1	
Phy 203	Mechanics	4	
Phy 204	Heat and Sound		4
	JUNIOR YEAR		
Bi 101	Survey of Biblical History	2	
Hi 305 or 303	Economic History of the United States or History of the United States and Pennsylvania		3

(See next page)

	Language	3	3
Ma 311	Differential Equations	3	
PE 204	Advanced Physical Education		1
Phy 303	Electricity and Magnetism	4	
Phy 304	Optics		4
Phy 305	Statics	3	
Phy 306	Dynamics		3
Ps 101-102	General Psychology	2	2

The fourth and fifth years must be satisfactorily completed in the field of engineering at Pennsylvania State University. Upon successfully completing the five-year program, the student will be eligible to receive the Bachelor of Arts degree from Elizabethtown College and the Bachelor of Science degree from Pennsylvania State University.

Freshman Engineering students must provide themselves with an acceptable slide rule and a drawing kit. These items are available in the college bookstore.

Requirements for the Bachelor of Science Degree

Major in Mathematics

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	FRESHMAN YEAR		
Bi 101-102	Survey of Biblical History	2	2
En 101-102	English Composition	3	3
Hi 101-102	History of Western Civilization	2	2
	Language	3	3
Ma 101-102	Mathematical Analysis	5	5
PE 101-102 or 103-104	Physical Education	1	1

(See next page)

	Sophomore Year		
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
	Language	3	3
Ma 201-202	The Calculus	4	4
PE 201-202 or 203-204	Advanced Physical Education	1	1
	Science	4	4
	Social Science		
	Junior Year		
Ma 301-302	Linear Algebra*	2	2
Ma 311	Differential Equations*	3	
Ma 312	Partial Differential Equations*		3
	Science	4 or 5	4 or 5
	Social Science		
	Electives		
	Senior Year		
Ma 314	Mathematical Statistics*		3
Ma 403	Advanced Calculus*	3	
Ph 351 or 352	Ethics or History of Philosophy	3	
	Science		4

*For students obtaining secondary education certification, a minimum of 33 semester hours in mathematics is required; only six of these hours need be in courses for which Ma 201 and 202 are prerequisite.

Students may elect Ma 153, 154, and 164 instead of Ma 101-102 upon recommendation of the advisor.

At least one course beyond a survey course must be elected in science. Phy 203 or 204 will meet this requirement.

The total requirement in Social Studies is 14 semester hours. Ed 203 Educational Psychology may be counted in this total.

Requirements for the Bachelor of Science Degree

Major in Medical Technology

Total Semester Hour Requirement, 99
in Addition to Hospital Training

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Bio 101-102	General Biology	4	4
Ch 101-102	Inorganic Chemistry	4	4
En 101-102	English Composition	3	3
Ma 153	College Algebra	3	
Ma 154	Trigonometry		3
PE 101-102	Physical Education	1	1
Ps 101-102	General Psychology	2	2
	Sophomore Year		
Bi 101-102	Survey of Biblical History	2	2
Bio 205	Microbiology	4	
Bio 256	Histological Technique		4
Ch 201	Qualitative Analysis	5	
Ch 202	Quantitative Analysis		5
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
Hi 101-102	History of Western Civilization	2	2
PE 201-202	Physical Education	1	1
	Junior Year		
Ch 301-302	Organic Chemistry	4	4
	History and/or Political Science (including Hi 301 or 302 or PS 352)	3	6
Ph 351	Ethics	3	

(See next page)

Ph 352	History of Philosophy		3
Phy 201-202	General Physics	4	4

The fourth year is to be completed in an accredited school of training in Medical Technology. Upon the completion of such a course and the successful passing of the Registry Examination for medical technologists the Bachelor of Science degree will be conferred by Elizabethtown College.

Elizabethtown College is affiliated with the York Hospital, St. Joseph's Hospital of Lancaster, and the Lancaster General Hospital in its program leading to the Bachelor of Science degree with a major in Medical Technology.

Requirements for the Bachelor of Science Degree

Major in Nursing

Total Semester Hour Requirement, 66 in Addition to Hospital Training

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Bi 101-102	Survey of Biblical History	2	2
Bio 101-102	General Biology	4	4
En 101-102	English Composition	3	3
Hi 101-102	History of Western Civilization	2	2
Ma 153 or 154	Basic Mathematics or College Algebra	3	
PE 101-102	Physical Education	1	1
Ps 101-102	General Psychology	2	2
So 151	Introduction to Sociology	2	2
	Sophomore Year		
Ch 111-112	Elementary College Chemistry	4	4
En 201-202 or 207-208	Survey of English Literature or World Literature	3	3
	History and/or Political Science (including Hi 301 or 302 or PS 352)	3	3
Ph 351 or 352	Ethics or History of Philosophy	3	
	Social Science	3	3
	Electives		3

Upon the satisfactory completion of the two-year college course and the three-year nursing course at an approved nurses' training school, and the passing of a state board examination for the R.N. degree, the student will be eligible for the Bachelor of Science degree from Elizabethtown College.

Requirements for the Bachelor of Science Degree

Major in Pre-medical Sciences

Total Semester Hour Requirement, 128

		1st Sem. S. H.	2nd Sem. S. H.
	Freshman Year		
Bi 101-102	Survey of Biblical History	2	2
Ch 101-102	Inorganic Chemistry	4	4
En 101-102	English Composition	3	3
Ma 101-102	Mathematical Analysis	5	5
PE 101-102 or 103-104	Physical Education	1	1
	Social Science* or Language	2 or 3	2 or 3
	Sophomore Year		
Bio 101-102	General Biology	4	4
Ch 201	Qualitative Analysis	5	
Ch 202	Quantitative Analysis		5
En 201-202 or 207-208	Survey of English Literature or World Literature 3		3
	Language or Mathematics*	3 or 4	3 or 4
PE 201-202 or 203-204	Advanced Physical Education	1	1
	Junior Year		
Bio 201	Comparative Anatomy	4	
Bio 202	Mammalian Anatomy		3
Ch 301-302	Organic Chemistry	4	4

(See next page)

Phy 201-202	General Physics	4	4
	Language or Social Science	3	3
	Social Science	2 or 3	2 or 3
	SENIOR YEAR		
Bio 304	Embryology		4
Bio 306	Histology		3
	Language or Social Science	3	3
Ph 352 or 353	Ethics or History of Philosophy		3
	Social Science	3	
	Electives**		

*The Calculus must be elected in the sophomore or junior year if Physical Chemistry is anticipated.
**Physical Chemistry is recommended.

Curriculum for Church Leadership Training

Upon completion of the following program, a student is eligible to receive from the Christian Education Commission of the General Brotherhood Board of the Church of the Brethren a College Level Leadership Training Certificate:

Required Courses:	Hours
Bible	6
General Psychology	3
Educational Psychology	3
Principles and Administration of Christian Education	3
Visual Education	2

Elective Courses:

Six semester hours chosen from among the following courses: Philosophy of Religion, Philosophy of the Christian Religion, Great Christian Doctrines, History of the Christian Church, History of the Church of the Brethren, Child Psychology, Social Psychology, Psychology of Religion, History of Religion.

Required Experience:

One year's experience in church school work, while in college, under the supervision of capable leadership.

Courses of Instruction

Bible and Philosophy

A. Bible

BI 101-102 SURVEY OF BIBLICAL HISTORY—A foundation course for subsequent study in Bible and Philosophy acquainting the student with the Bible as a whole. 2 hours—4 credits.

BI 251 OLD TESTAMENT LITERATURE—A brief study of the various literary types in the Old Testament books followed by selections from the three main literary types: the Psalms, Wisdom Literature, and Prophetic Literature. *Prerequisite Bi 101-102.* 2 hours—2 credits.

BI 312 NEW TESTAMENT THOUGHT—An advanced course in Biblical studies with special attention to the thought patterns and theological insights found within the New Testament literature; a consideration of the Epistles, Hebrews and Revelation in relation to the Gospel records and the Pauline correspondence. 2 hours—2 credits.

BI 351 THE TEACHINGS OF JESUS—A study of the teachings of Jesus in context with applications to life; a brief survey of the era in which Christ lived. *Prerequisite Bi 101-102.* 2 hours—2 credits.

B. Religion

REL 201-202 NEW TESTAMENT GREEK—An introductory course in New Testament Greek for students interested in a thorough study of the Bible. *Prerequisite Bi 101-102.* 3 hours —6 credits.

REL 203 PSYCHOLOGY OF RELIGION—A study of the origin and growth of religion in the life of the individual, including prayer, conversion, worship, and other religious experiences. *Prerequisite Bi 101-102.* 2 hours—2 credits.

REL 303 COMPARATIVE RELIGIONS—An introduction to the major religions of the world, the origin, characteristics, and contributions to world culture taught against the background of Christianity. *Prerequisite Bi 101-102.* 3 hours—3 credits.

REL 312 HISTORY OF THE CHRISTIAN CHURCH—A survey course beginning with the First Century Church and ending with a study of current trends and movements in Christianity; a study of the development of Christian thought as well as of historical incidents. *Prerequisite Bi 101-102.* 3 hours—3 credits.

REL 411 THE CHRISTIAN FAITH—An introduction to the basic doctrines of the Christian religion; a study of the central doctrines of the Bible including God, man, sin, Christ, and the Church. *Prerequisite Bi 101-102.* 3 hours—3 credits.

C. Christian Education

CE 203 PRINCIPLES AND ADMINISTRATION OF CHRISTIAN EDUCATION—A study of the fundamentals of religious education as applied to problems in the home, methods of work in the Church, the school, the Sunday School, and other community efforts for the Christian education of both children and adults. *Prerequisite Bi 101-102.* 3 hours—3 credits.

CE 312 HISTORY AND PROGRAM OF THE CHURCH OF THE BRETHREN—A course designed to give the student an understanding of the historical background of the Church of the Brethren and a view of its present program. *Prerequisite Bi 101-102.* 3 hours—3 credits.

D. Philosophy

PH 351 ETHICS—An introduction to the historical types of Christian and Western philosophical ethics relating the material to the contemporary situation. *Prerequisite Bi 101-102.* 3 hours —3 credits.

PH 352 HISTORY OF PHILOSOPHY—An introduction to the different types of Western philosophical thought with focus upon six representative philosophers. *Prerequisite Bi 101-102.* 3 hours —3 credits.

PH 411 LOGIC—A study of the deductive and inductive methods of logic, both classical and contemporary. *Prerequisite Bi 101-102.* 3 hours—3 credits.

PH 412 AESTHETICS—An introduction to the various theories of aesthetics through readings in primary source material. *Prerequisite Bi 101-102.* 3 hours—3 credits.

PH 499 SEMINAR IN PHILOSOPHY AND RELIGION—An intensive study of a special area of inquiry within the field of Philosophy in the first semester and Religion in the second. *Prerequisite 10 semester hours in Bible and Philosophy and permission of the instructor.* 2 hours—2 credits. By appointment.

Biology

BIO 101-102 GENERAL BIOLOGY—A study of the science of life, its concepts and principles, through consideration of the structure, function, and life histories of representative animals and plants. 3 hours *r*, 2 hours *l*—8 credits.

BIO 301 COMPARATIVE ANATOMY OF VERTEBRATES—A detailed comparative study of the morphology of vertebrate organ systems in representative species. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 202 MAMMALIAN ANATOMY—Comprehensive anatomy of the domestic cat. *Prerequisite Bio 101-102.* 1 hour *r*, 4 hours *l*—3 credits.

BIO 203 PLANT BIOLOGY—Basic studies in the field of Botany as a foundation for advanced study. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 205 MICROBIOLOGY—An introduction to the general principles and techniques of the study of microörganisms. *Prerequisite Bio 101-102 and Ch 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 207 TAXONOMIC ECOLOGY OF PLANTS—Introduction to the study of the identification of flowering plants of the local area with particular emphasis on their distribution. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 256 HISTOLOGICAL TECHNIQUE—Basic training in the preparation of plant and animal tissue for study under the microscope. *Prerequisite Bio 101-102 and Ch 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 304 EMBRYOLOGY—A study of the comparative vertebrate development from the fertilized egg to the formation of the principal organs of the body. *Prerequisite Bio 256.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 305 GENERAL PHYSIOLOGY—Basic elements that make the machinery of the body function; shows the purpose of anatomy. *Prerequisite Bio 201.* 2 hours *r*, 2 hours *l*—3 credits.

Bio 306 Histology—The study of cells as organized into the tissues and organs of representative vertebrates. *Prerequisite Bio 304 and 305.* 1 hour *r*, 4 hours *l*—3 credits.

Bio 308 Genetics—An introduction to the study of the principles of heredity. *Prerequisite Bio 256 and 305.* 2 hours *r*, 2 hours *l*—3 credits.

Bio 412 Techniques in Biology—Methods in preparing demonstrations, collecting and preserving materials, and related techniques. Offered for prospective teachers and graduate students. *Prerequisite A minimum of 16 semester hours in Biology and permission of the instructor.* By appointment—Credits variable.

Bio 499 Special Problems in Biology—Designed to acquaint the advanced student with the problems involved in individual work in Biology. *Prerequisite A minimum of 16 semester hours in Biology and permission of the instructor.* By appointment—Credits variable.

Business

A. Accounting

Ac 101-102 Principles of Accounting—A thorough study of the principles of debit and credit; analysis and the use of journals and ledgers, financial statements, controlling accounts and subsidiary ledgers; voucher system; partnership and corporation accounting; departmental and branch accounting. 2 hours *r*, 2 hours *l*—6 credits.

Ac 201-202 Cost Accounting—First semester—Job order and process cost systems; second semester—standard costs, budgets, cost analysis, and an introduction to direct costing. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—6 credits.

Ac 211 Introduction to Cost Accounting—A survey of the elements of costs, their application in job order and process systems; standard costs. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 212 Personal Income Tax Accounting—A survey course in preparation of individual income tax returns; a study of what constitutes income and expense and how to report them on tax forms; tax saving devices for the individual. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 301 Intermediate Accounting—A thorough study of the use, composition and variations of accounting methods in connection with the following accounts: cash, receivables, inventories, fixed assets and valuation accounts; investments, and liabilities; prevailing accounting theories in determining net income; the use of fund statements. *Prerequisite Ac 101-102.* 2 hours *r,* 2 hours *l*—3 credits.

Ac 302 Advanced Accounting—A detailed study of accounting for partnerships and corporations; comparative statements, analysis of working capital, insurance, installment sales; an introduction to accounting for consolidations. *Prerequisite Ac 301.* 2 hours *r,* 2 hours *l*—3 credits.

Ac 401-402 Auditing—An extensive analysis of the responsibilities and work of an auditor, the purpose and kinds of audits, preparatory analysis and considerations, systems of internal check, consolidated statements, auditors' reports, investigations, and auditors' certificates; an audit case problem. *Prerequisite Ac 301-302.* 3 hours—3 credits.

Ac 411 Tax Accounting—A study of the important provisions of the Federal Tax law pertaining to individuals, partnerships and corporations, using illustrative examples, selected questions and problems, and the preparation of returns. *Prerequisite Ac 301-302.* 3 hours—3 credits.

Ac 412 C.P.A. Problems—A course designed especially for students of advanced accounting who are planning to take state examinations for qualifications as Certified Public Accountants. *Prerequisite Ac 301-302.* 3 hours—3 credits.

B. Business Administration

BA 201-202 Principles of Economics—A beginning course in the principles and problems of economics; production, monopoly, public finance, national income, money, banking, business cycles, value, price, supply and demand, wages, rent, interest, and profits. 3 hours—6 credits.

BA 214 Marketing—A study of the meaning and importance of marketing distribution; transportation as related to marketing; storage, standardization and grading; services performed by brokers, sales agents, auctions, wholesalers and various types of retailers; cooperative marketing, trade associations, fair competition. 3 hours—3 credits.

BA 303 INTERMEDIATE MICRO-ECONOMIC THEORY—The structure of markets, pricing of goods, pricing of the factors of production, general equilibrium theory. *Prerequisite BA 201-202 and permission of the instructor.* 3 hours—3 credits.

BA 304 INTERMEDIATE MACRO-ECONOMIC THEORY—National income accounting, monetary and fiscal stabilization policies, a comparison of the Classical and Keynesian policy recommendations; a study of current policy recommendations in light of these theories. *Prerequisite BA 201-202 and permission of the instructor.* 3 hours—3 credits.

BA 305 COMPARATIVE ECONOMIC SYSTEMS—Examination, criticism and appraisal of alternative economic systems; capitalism, socialism, communism, and mixed economic systems. *Prerequisite BA 201-202.* 2 hours—2 credits.

BA 306 DEVELOPMENT OF ECONOMIC DOCTRINE—Economic science as it developed from the classical tradition of Smith, Ricardo, and Malthus to the modern economics of Keynes and Schumpeter. *Prerequisite BA 201-202.* 2 hours—2 credits.

BA 315 ADVERTISING—The relation of advertising to business; a general survey of advertising procedure from the inception of the idea to the completion of the advertisement. 3 hours—3 credits.

BA 316 SALESMANSHIP—The principles of personal salesmanship including preparation for and obtaining the interview; constructing and presenting the sales talk; steps in making and closing sales; prospecting; sales techniques. 3 hours—3 credits.

BA 323 MONEY AND BANKING—A study of the monetary system and the credit and banking system of the United States; emphasis on the Federal Reserve System, government fiscal policy, debt management, credit control and other monetary problems. 3 hours—3 credits.

BA 324 CORPORATION FINANCE—An analysis of the nature and development of the corporate forms of business enterprise; the characteristics of the various types of securities, the part played by each type in the capital structure of the corporation, and the manner of issuance and sale; the growing importance of the corporation as a form of business organization. 3 hours—3 credits.

BA 331-332 Business Law—A study of the law of business and its administration; the general principles of the law of contract, of agency, employer and employee, negotiable instruments, suretyship, and insurance; second semester—bailments, carriers, sales, partnership, corporations, property, deeds of conveyance, mortgages, torts, and business crimes. 3 hours—6 credits.

BA 343 Introduction to Statistics—Elementary statistical theory from the viewpoint of the businessman; presentation and analysis of statistics in business, collection and presentation of statistical data, tabulation, graphs, frequency curves, dispersions, sampling, and probability. *Prerequisite 1 year of college mathematics.* 3 hours—3 credits.

BA 344 Advanced Business Statistics—Methodology of time series analysis including the trend, the cyclical fluctuations and the seasonal variation; the methods of correlation analysis. *Prerequisite BA 343.* 3 hours—3 credits.

BA 363 Office Management—Current practices in effective office management, including layout, work flow, forms control, correspondence, work simplification, equipment, and the selection and training of office employees. 3 hours—3 credits.

BA 404 Economic Problems—An application of ecoonmic principles to such problems as inflation and deflation, full employment, economic stagnation, credit control, monopolies, and controlled economies. *Prerequisite BA 201-202.* 3 hours—3 credits.

BA 405 Economic Geography—A study of the relation of topography to human economic activity; land forms of the world, climate regions, and agriculture. 3 hours—3 credits.

BA 406 World Resources and Industries—A consideration of the location and utilization of minerals around the world; an analysis of the economic aspects of the major industries of the United States. 3 hours—3 credits.

BA 424 Statement Analysis—An advanced course unifying some of the work of corporation finance and advanced accounting with emphasis on the practical problems of the analysis of financial statements. *Prerequisite Ac 301-302, BA 323-324.* 2 hours—2 credits.

BA 431-432 Advanced Business Law—Emphasis upon the principles of law as they apply to accounting; case studies and typical C.P.A. law problems included. *Prerequisite BA 331-332.* 1 hour—2 credits.

BA 467 Personnel Administration—An examination of actual personnel situations in industry through the case study method; cases in absenteeism, incentives, wage differences, grievance, promotions, personality adjustments, communications, and executive development. 3 hours—3 credits.

BA 468 Industrial and Labor Relations—An evaluation of the historical development of the union movement and the collective bargaining process; union-management relationships, procedures for the alleviation of tension, alternatives to force, the role of government participation and control in the realization of industrial peace. 3 hours—3 credits.

BA 499 Business Research Thesis—An opportunity for seniors in independent study and research on a problem or topic in the field of business. (Copies of the thesis must be acceptable for inclusion in the College library.) By appointment. 3 credits.

C. Business Education

BEd 101-102—Elementary Gregg Shorthand—An intensive study of Gregg Shorthand Simplified; emphasis upon theory, application, phrasing, dictation of connected matter, reading from shorthand plates, vocabulary building, and the dictation and transcription of new material at varying rates of speed. 3 hours—6 credits.

BEd 111-112 Elementary Typewriting—Training in fundamental typewriting technique; machine operation, keyboard technique, word drills, letter forms, tabulations, manuscript set-up, preparation of business and legal papers, speed and accuracy building. 2 hours *r,* 2 hours *l*—4 credits.

BEd 201-202 Advanced Gregg Shorthand—A thorough review of shorthand theory; dictation and transcription covering a wide range of businesses for the development of the vocabulary, speed, and accuracy demanded in business and professional offices; emphasis on shorthand penmanship, vocabulary, and advanced phrase building. *Prerequisite BEd 101-102 or permission of instructor.* 3 hours—6 credits.

BEd 211 Advanced Typewriting—Development of job production techniques, especially for skill in rapid production of commercially acceptable and mailable copy. *Prerequisite BEd 111-112 or permission of the instructor.* 3 hours—2 credits.

BEd 213 Office Machine Practice—Instruction and practice in the use of modern office machines as Comptometers, the Sundstrand, the Burroughs, the Monroe and the Friden, stencil and liquid duplicators, the electric typewriter. 3 hours—2 credits.

BEd 214 Secretarial Office Practice—Instruction in secretarial duties common to all fields of business; special attention to filing, handling of mail, editing and proof reading, duties of the receptionist, business ethics, and the use of reference books; research assignments, job sheets, and laboratory exercises included. *Prerequisite BEd 101-102.* 3 hours—2 credits.

BEd 216 Business Correspondence—A study in effective communication of ideas and information in the modern business world; the letter, the report, the advertisement, inquiry forms such as the interview and the questionnaire. 3 hours—3 credits.

BEd 336 Methods and Principles of Business Education—A thorough consideration of the methods of teaching business subjects on the high school level—particularly bookkeeping, shorthand, typewriting, and related subjects; curriculum materials, their selection and adaptation; tests and measurements in commercial education. 3 hours—3 credits.

Chemistry

Ch 101-102 Inorganic Chemistry—A study of the fundamental laws and principles of chemistry together with a thorough study of the elements. (For students who will enroll in advanced courses in chemistry.) *Prerequisite High School Algebra.* 3 hours *r,* 3 hours *l*—8 credits.

Ch 111-112 Elementary College Chemistry—A terminal course in chemistry similar to Ch 101-102 in content. 3 hours *r,* 2 hours *l*—8 credits.

Ch 201 Qualitative Analysis—A study of the systematic separation and detection of the common metals and acid radicals, the theory of qualitative analysis, laboratory analyses, and chemical calculations. *Prerequisite Ch 101-102 and Ma 153.* 3 hours *r,* 6 hours *l*—5 credits.

CH 202 QUANTITATIVE ANALYSIS—Methods and principles of quantitative analysis, including gravimetric, volumetric and colorimetric determinations of alloys, ores, limestone, and commercial products. *Prerequisite Ch 201.* 3 hours *r*, 6 hours *l*—5 credits.

CH 301-302 ORGANIC CHEMISTRY—Carbon compounds including both aliphatic and aromatic hydrocarbon derivatives and type reactions; the source and importance of organic compounds prominent in industry; special attention to the needs of the premedical student. *Prerequisite Ch 201-202.* 3 hours *r*, 3 hours *l*—8 credits.

CH 321 ADVANCED QUANTITATIVE ANALYSIS—Individual work in analysis from the following fields: ferrous or nonferrous alloys, rock, food, feed, fertilizer, paints, petroleum; commercial samples used. *Prerequisite Ch 202.* 3 hours *r*, 8 hours *l*—4 credits.

CH 401-402 PHYSICAL CHEMISTRY—An expansion and coordination of previous courses as related to the physical states of matter, solutions—homogeneous and heterogeneous, equilibria, thermodynamics, and the interrelationship of these quantities through mathematics; laboratory emphasis on the application of physical measurements to the solutions of chemical problems. *Prerequisite Ch 301-302, Ma 201-202, and Phy 201-202.* 3 hours *r*, 3 hours *l*—8 credits.

CH 421 QUALITATIVE ORGANIC ANALYSIS—A study of properties of functional groups of organic compounds, with application of these principles used in the identification of pure organic compounds and of mixtures of organic compounds. *Prerequisite Ch 301-302.* 2 hours *r*, 8 hours *l*—4 credits.

CH 422 PROBLEMS IN ORGANIC CHEMISTRY—A study of the problems of organic synthesis and organic quantitative analysis. *Prerequisite Ch 301-302.* 2 hours *r*, 10 hours *l*—4 credits.

CH 499 SPECIAL PROBLEMS IN CHEMISTRY—Designed to acquaint the advanced student with the problems involved in individual work in Chemistry. By appointment—Credits variable.

Education

Ed 154 Introduction to Education—A study of American Schools with consideration of European antecedents and of educational changes in the United States; control and support of education, organization of schools, the teacher, methods of teaching, recent developments in education. 3 hours—3 credits.

Ed 203 Educational Psychology—A fundamental course concerned with the original nature of man, the laws of learning, and individual differences. *Prerequisite Ps 101-102.* 3 hours—3 credits.

Ed 204 Educational Sociology—Sociological facts with particular educational implications with attention to community life and personality contacts and adjustments. *Prerequisite So 151 or Ed 154.* 3 hours—3 credits.

Ed 302 Visual Education—Designed to present the fundamental principles of visual and sensory aids used in the schoolroom; various types and techniques applied to subject matter. 2 hours *r,* 1 hour *l*—2 credits.

Ed 210 Special Class Methods—Methods of teaching in special education designed to meet the needs of the special education teacher; includes a workshop study of planning and organizing curricular materials of instruction for the primary, the intermediate, and the advanced maturational levels. 3 hours—3 credits.

Ed 313-314 Teaching of Arithmetic and Science—Fundamental psychological principles in teaching and interpreting arithmetic and science in grades 1 through 8; an acquaintance with materials of instruction. 3 hours—6 credits.

Ed 315-316 Teaching of Reading and Language Arts—Methods and practice in teaching reading, grades 1 to 6; the study and practice of methods in teaching oral and written composition, manuscript and cursive writing, phonics and spelling. *Prerequisite En 201-202 or En 207-208.* 3 hours—6 credits.

Ed 318 Teaching of Music in the Elementary School—Acquaints the prospective elementary classroom teacher with methods and materials used in the teaching of music. *Prerequisite Mu 101.* 3 hours—3 credits.

ED 320-330 ARTS AND CRAFTS FOR SPECIAL CLASSES—Especially organized to meet the needs of teachers of special education; instruction in the development of the child with crafts from the very simple to more advanced methods in woodwork, plastic, cork, weaving, paper, novelties, leather, use of salvage material, household repairs, and clay modeling. 3 hours—6 credits.

ED 322 TEACHING OF PUBLIC SCHOOL ART—Designed to prepare the student to teach public school art; includes drawing, the elementary principles of design, lettering, composition, and color harmony and their application to home, school, and community interests. 3 hours—3 credits.

ED 331-332 PRINCIPLES AND PRACTICES OF SECONDARY EDUCATION—A study of the problems of teaching, learning activities, organization of courses of instruction and units, methods of planning and organizing classroom activities, and of evaluating the outcomes on the secondary level; practice in lesson planning and demonstration teaching. 3 hours—6 credits.

ED 334 EDUCATIONAL MEASUREMENTS—A consideration of the better known educational tests and an introduction to statistics and their use. 3 hours—3 credits.

Methods and Principles of Business Education (See BEd 336)

ED 342 EDUCATIONAL GUIDANCE—The history, principles, problems, procedures, organization, administration, and supervision of educational and vocational guidance; special attention to the importance of guidance and personnel service at various educational levels. 3 hours—3 credits.

ED 344 SAFETY EDUCATION—A study of the history and development of safety education, the psychology of accident prevention, driver education, sports education, industrial safety techniques, and measuring the results of safety education. 3 hours—3 credits.

ED 350 SPECIAL CLASS TEACHING—Observation, classroom teaching, and conferences in special education, with supervisors, for a period of one semester. By appointment—1 credit. Fee $45.00 including tuition.

ED 352 TEACHING OF SOCIAL STUDIES—Designed to acquaint the prospective teacher of the social studies in elementary and secondary schools with current methods, literature, and visual aids in the field. 3 hours—3 credits.

Ed 403-404 History and Philosophy of Education—An analysis of the history of education from early Greek times to the present; a study of the nature of knowledge and the theories of great thinkers as to what the final goals of education should be and how they may be obtained; provides a background from which the student can formulate his philosophy of education. 3 hours—6 credits.

Ed 451 Practice Teaching—Observation, participation, and practice teaching in the public schools; special attention to lesson plans, discipline, classroom technique, and the measuring of results; conferences and discussions. (The student is required to achieve an average grade of *C* in any field in which he wishes to do practice teaching.) *Prerequisite Ed 315-316 for elementary teachers, Ed 332 for secondary teachers.* 8 hours (or equivalent)—8 credits.

Ed 499 Senior Seminar in Education—Designed to acquaint seniors who wish to do graduate work with methods of research in Education. 2 hours—2 credits.

English

En 101-102 English Composition—A study of the fundamentals of effective English through their practical application to oral and written themes; individual conferences included. 3 hours—6 credits.

En 103 Advanced Freshman English—An accelerated course in Composition and Research Writing, equivalent in one semester of instruction to the work of English 101-102; enrollment open only for students demonstrating superior performance in the college achievement examination in English. 3 hours—3 credits.

En 201-202 Survey of English Literature—A study of selections in poetry and prose from the Anglo-Saxon period to the present time; aims to acquaint the student with the major movements in literature and to develop an appreciation of literature itself. 3 hours—6 credits.

En 205-206 American Literature—Representative authors and periods from the Colonial Period to the present, a careful study of the major part of the work of the best writers. 2 hours —4 credits.

EN 207-208 WORLD LITERATURE—A study of a selected group of writings from Eastern and Western cultures and their relation to our present world. 3 hours—6 credits.

EN 215-216 JOURNALISM—An introductory course including a study of newspapers and news-values, with emphasis on effective news reporting through the analysis and writing of news stories, editorials, and feature articles; designed for the college newspaper staff member and the prospective teacher interested in school publication procedures. 3 hours—6 credits.

EN 303 THE ENGLISH NOVEL—A survey of English prose fiction from Defoe to Hardy; the novel form and its development through the eighteenth and nineteenth centuries in the light of the outstanding writers in this genre. *Prerequisite En 201-202.* 2 hours—2 credits. Offered 1961-1962.

EN 304 THE ENGLISH ESSAY—An investigation of the essay in English, both British and American, from its earliest beginnings to the present time; studied particularly in the familiar and critical types to acquaint the student with the vast scale of styles and degrees of subjectivity in the form. *Prerequisite En 201-202.* 2 hours—2 credits. Offered 1961-1962.

EN 305-306 SHAKESPEARE—A consideration of the origin and development of the English drama together with a study of the chief plays of Shakespeare. *Prerequisite En 201-202.* 2 hours—4 credits.

EN 307 THE SEVENTEENTH CENTURY—A survey of the nondramatic literature, exclusive of the work of Milton, between the ages of Shakespeare and Dryden; attention to the intellectual, political, and religious ferment of the period and to the growth of modern science; emphasis on the prose of Bacon, Burton, and Brown and on the poetry of Donne, Jonson, and their followers. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1962-1963.

EN 308 THE EIGHTEENTH CENTURY—Poetry and prose of the eighteenth century, with emphasis upon the Neoclassic writers and the forerunners of the Romantic Movement. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1961-1962.

EN 309 MILTON—A careful analysis of the chief poetical writings of John Milton with selections from his prose works; designed to give the student an understanding of the political, theological, and social backgrounds of Milton's work. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1961-1962.

EN 313-314 PROBLEMS IN PLAY DIRECTING—A practical course for teachers and directors of drama in elementary and secondary schools, in churches, or community theatres; general and historical techniques in directing together with modern forms of area and space staging. 2 hours—4 credits. Offered 1961-1962.

EN 315 ADVANCED JOURNALISM—A study of the advanced aspects of journalism with particular emphasis on copy reading and newspaper make-up. *Prerequisite En 213.* 2 hours—2 credits.

EN 318 CREATIVE WRITING—Designed to instruct and guide the student in producing original written works in the forms of his choice; embraces the nomenclature of all literary forms and their characteristics. *Prerequisite A minimum of 12 semester hours of English or permission of instructor.* 3 hours—3 credits.

EN 321 SPEECH—A study of effective speaking; emphasis upon the correction of speech defects, proper articulation, poise, and interpretative reading; drill in parliamentary procedure, speaking from notes, and preparing papers. 2 hours—2 credits.

EN 322 ADVANCED SPEECH—A consideration of processes and techniques of effective discussion practice; skills of speaking, listening, and semantics. *Prerequisite En 321.* 2 hours—2 credits.

EN 323 ARGUMENTATION AND DEBATE—A study of the theory of influencing belief and conduct; procedures in argumentative speech from gathering material and analyzing the proposition through delivery and rebuttal. 2 hours—2 credits.

EN 342 ADVANCED LINGUISTICS—An investigation of the development of English language and usage to the present time, particularly in the matters of phonetic variations within the language, syntactical character, structural grammar, basic morphology, and current authoritative theories of metalinguistics. Open to only Juniors and Seniors. 3 hours—3 credits.

EN 352 CHILDREN'S LITERATURE—An interpretative and critical study of literature for children, including selected readings, fiction and non-fiction, and a study of illustrators and the history of writing for children. Open to only Juniors and Seniors. 3 hours—3 credits.

EN 401 THE ROMANTIC MOVEMENT—Poetry and prose from 1786 to 1830 (after a preliminary examination of the "pre-romantic movement") with major emphasis upon Burns, Wordsworth, Coleridge, Lamb, DeQuincey, Shelley, Byron, Keats, and Hazlitt. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1962-1963.

EN 402 VICTORIAN POETRY—A study of Victorian poetry from Tennyson to Kipling with emphasis upon the intellectual and social backgrounds of this period. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1962-1963.

EN 403-404 MODERN DRAMA—A study of the major European and American dramatists from Ibsen to the present. *Prerequisite En 201-202.* 2 hours—4 credits. Offered 1961-1962.

EN 405 CONTEMPORARY POETRY—A consideration of the chief American and British poets since 1914, their philosophy of life and their criticism of present day problems. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1962-1963.

EN 407-408 CONTEMPORARY NOVEL—A study of the work of representative American, British, and Continental novelists of the present century with consideration of its relation to modern thought and literature. *Prerequisite En 201-202.* 2 hours—4 credits. Offered 1962-1963.

EN 412-413 DRAMATIC PRODUCTION—The art of producing plays including historical background, directing and staging techniques during the first semester and costuming, lighting, and make-up during the second. 2 hours—4 credits. Offered 1962-1963.

EN 414 AMERICAN SHORT STORY—A study of the short story as a form in American Literature from Irving to the present time. *Prerequisite En 201-202 or En 205-206.* 3 hours—3 credits. Offered 1962-1963.

EN 499 SENIOR SEMINAR IN ENGLISH—Designed to acquaint seniors who wish to do graduate work with methods of research and interpretation in English. *Prerequisite A minimum of 20 semester hours in English and permission of the instructor.* 2 hours—2 credits.

Foreign Languages

A. Esperanto

Es 93 Esperanto—A study of the international language, Esperanto, including grammar, readings, and conversation. A student having completed this course satisfactorily may receive a diploma issued by the Esperanto Association of North America. 3 hours—3 credits. Offered 1961-1962.

B. French

Fr 101-102 First Year French—Designed for students beginning French in college; includes grammar, reading, and diction. 3 hours—6 credits.

Fr 201-202 Second Year French—A review of the essentials of grammar and the reading of at least four representative works of French literature. *Prerequisite Fr 101-102 or two years of high school French.* 3 hours—6 credits.

Fr 301-302 French Literature to 1700—Particular attention to such authors as Villon, the Pléiade, Rabelais, Montaigne, Malherbe, Descartes, Corneille, Pascal, Boileau, Molière, Bossuet, and Racine and to such movements as "la Préciosité" and "la Querelle des anciennes et des modernes." *Prerequisite Fr 201-202.* 3 hours—6 credits.

Fr 401-402 Eighteenth Century French Literature—A study of the characteristics of the eighteenth century and of Montesquieu, Voltaire, Diderot, Rousseau, and others. *Prerequisite Fr 201-202.* 3 hours—6 credits.

C. German

Ge 101-102 First Year German—Drill in pronunciation, the essentials of grammar, practice in speaking, writing, and translation from prose selections. 3 hours—6 credits.

Ge 201-202 Second Year German—A review of grammar and the translation of plays and novels. *Prerequisite Ge 201-202 or two years of high school German.* 3 hours—6 credits.

Ge 301-302 Third Year German—Beginnings of German literature through the Reformation and Renaissance. *Prerequisite Ge 201-202.* 3 hours—6 credits.

GE 401-402 GERMAN CLASSICISM AND ROMANTICISM—Emphasis upon authors such as Klopstock, Lessing, Goethe, Schiller, Grillparzer, and Heine. *Prerequisite Ge 201-202.* 3 hours—6 credits.

D. Spanish

SP 101-102 FIRST YEAR SPANISH—Careful drill in grammar and reading. 3 hours—6 credits.

SP 201-202 SECOND YEAR SPANISH—Emphasis on rapid prose reading and on advanced composition. *Prerequisite Sp 101-102 or two years of high school Spanish.* 3 hours—6 credits.

SP 301-302 SPANISH LITERATURE TO 1700—Enables the student to read intelligently the great authors of Spain. *Prerequisite Sp 201-202.* 3 hours—6 credits.

SP 401-402 SPANISH LITERATURE SINCE 1700—Classical Spanish literature and South American literature of the nineteenth and twentieth centuries. *Prerequisite Sp 201-202.* 3 hours—6 credits.

History and Political Science

A. History

HI 101-102 HISTORY OF WESTERN CIVILIZATION—A brief survey of the development of Western civilization from its earliest beginning to the present day; stress on long-range movements and trends; aims to give the student a basic knowledge of his own political, economic, and cultural background. 2 hours—4 credits.

HI 203 HISTORY OF THE RENAISSANCE AND REFORMATION—A survey of the history of Europe from about 1400 to 1648; a portrayal of the transition of European society, institutions, and thought from the Middle Ages to modern times. 3 hours—3 credits.

HI 204 THE HISTORY OF EUROPE DURING THE 17TH AND 18TH CENTURIES—The age of absolutism in Europe from 1648 to the French Revolution and the period of the French Revolution and Napoleon; emphasis on the political and diplomatic history of the older European powers as well as the entrance of Russia and Prussia into the stream of European History, the intellectual

foundations of political and economic liberalism as a background to the 19th century, and the imperial struggles between European powers. 3 hours—3 credits.

Hi 205-206 English History—A consideration of the entire span of English History from the most ancient times to the present with special attention to the development of parliamentary government. 3 hours—6 credits.

Hi 207 Nineteenth Century Europe—A portrayal of the history of Europe from the Congress of Vienna to World War I, with particular attention to the political, social, and economic history of Europe in this area, and a general survey of European diplomacy. 3 hours—3 credits.

Hi 208 Europe during the Twentieth Century—A general survey of World War I and a characterization of twentieth century society; focus on the plight of democracy, the rise of fascist and communist totalitarianism, the great depression, and the effects of both World Wars. 3 hours—3 credits.

Hi 303-304 History of the United States and Pennsylvania—An introductory survey of major developments and movements in the history of the United States with consideration of social, cultural, political, and economic trends; attention to the history of Pennsylvania as it reflects significant trends in the history of the United States. 3 hours—6 credits.

Hi 305 Economic History of the United States—A study of the developments of American economic life from the agrarian economy of the Colonial Period to the highly complex industrial economy of the present day. *Prerequisite Hi 303-304 or permission of the instructor.* 3 hours—3 credits. Offered 1961-1962.

Hi 306 Recent History of the United States—The development of the United States since 1890 with emphasis on social, intellectual, and economic implications. 3 hours—3 credits. Offered 1961-1962.

Hi 403-404 Diplomatic History of the United States—A study of the major developments in the international relations of the United States; a seminar course when class size permits. *Prerequisite Hi 301-302 or permission of the instructor.* 2 hours—4 credits. Offered 1962-1963.

HI 406 EUROPEAN DIPLOMACY SINCE THE CONGRESS OF VIENNA—A survey of the conduct of European diplomacy since the fall of Napoleon with emphasis on the period since 1870 as the diplomacy leading up to both World Wars and the peace negotiations following these wars are presented; a seminar course. *Prerequisite Hi 207 or 208 or permission of the instructor.* 3 hours—3 credits. Offered 1962-1963.

HI 408 MEDIEVAL HISTORY—A survey of the History of Europe from 300 A.D. to 1500 A.D.; development and subsequent decline of medieval institutions; emphasis on the religious, political, economic and intellectual currents in the West and to some extent in the East, on the development of the Christian Church and Christian thought and philosophy in their historic setting, and on the early foundations of Modern Europe. 3 hours—3 credits. Offered 1961-1962.

HI 499 SENIOR SEMINAR IN HISTORY—Designed to acquaint seniors who wish to do graduate work in history with methods of historical research and historical interpretation. *Prerequisite A minimum of twenty semester hours of history and permission of the instructor.* 2 hours—2 credits.

B. Political Science

PS 313 INTERNATIONAL RELATIONS—The theory and practice influencing the relations between states with special emphasis on the more important international organizations. 3 hours—3 credits. Offered 1961-1962.

PS 352 AMERICAN NATIONAL GOVERNMENT—A survey of the political institutions of the United States and their evolution to the present day with emphasis on the contemporary period. 3 hours—3 credits.

PS 414 COMPARATIVE EUROPEAN GOVERNMENTS—A survey of the political institutions of the various European states with consideration to their historical development; stress on the governments of Russia, Germany, France, England, and Italy; a seminar course when class size permits. *Prerequisite Hi 207 and 208 or permission of the instructor.* 2 hours—2 credits. Offered 1962-1963.

Mathematics

MA 101-102 MATHEMATICAL ANALYSIS—A modern, unified presentation of algebra, trigonometry, analytic geometry, and introductory calculus; stress upon analytical methods; a foundation course for further study in mathematics, physical science, or engineering. *Prerequisite Ma 151 or acceptable mathematics placement test score.* 5 hours—10 credits.

MA 151 BASIC MATHEMATICS—Designed for students who do not have the necessary secondary school work in mathematics to prepare them for College Algebra; basic principles and drill necessary required for study of College Algebra or Mathematics of Business. 3 hours—3 credits. Not applicable for hour requirements for the mathematics major.

MA 153 COLLEGE ALGEBRA—A fundamental course in college mathematics serving as a basis for further study in mathematics at various levels. *Prerequisite Ma 151 or acceptable mathematics placement test score.* 3 hours—3 credits.

MA 154 TRIGONOMETRY—The concepts of plane triangle solving and analytical trigonometry with stress on the latter; serves as a background for further mathematics and science courses. *Prerequisite Ma 153.* 3 hours—3 credits.

MA 162 MATHEMATICS OF BUSINESS—Specific elementary topics with business applications: simple interest, bank discount, credit charges, chain discounts, logarithmic computations, and elementary compound interest. *Prerequisite Ma 151.* 3 hours—3 credits.

MA 164 ANALYTIC GEOMETRY—The traditional course of coordinate geometry using algebraic methods entirely; emphasis on general curve analysis over conic sections; foundations of three dimensional systems. *Prerequisite Ma 154.* 3 hours—3 credits.

MA 166 HIGHER ALGEBRA—A continuation of work in algebra including the following topics: theory of equations, determinants, permutations and combinations, probability, and mathematical induction. *Prerequisite Ma 153.* 3 hours—3 credits.

MA 168 MATHEMATICS OF FINANCE—Introductory phases of finance on a non-calculus level covering the following topics: simple interest, logarithmic computation, compound accumulation and present value, general annuities, certain bonds, sinking funds, and introductory life insurance and life annuities. *Pre-*

requisite Ma 153 or permission of the instructor. 3 hours—3 credits.

Ma 172 Modern Geometry—A consideration of the topics of modern geometry which have been developed since the time of Euclid; emphasis on construction problems and theorems. *Prerequisite Ma 153, either Ma 154 or Ma 101-102 recommended.* 3 hours—3 credits.

Ma 201-202 The Calculus—A modern approach to the classical course in calculus; covers differential and integral calculus during the first semester and basic work in moments, multivariate calculus, series, differential equations, and certain applications of each of these topics during the second. *Prerequisite Ma 101-102 or Ma 153, 154, and 164.* 4 hours—8 credits.

Ma 301-302 Linear Algebra—A basic theoretical modern mathematics course; topics included: vectors, matrices, theory of linear equations, coordinate transformations. *Prerequisite Ma 201-202.* 2 hours—4 credits.

Ma 311 Differential Equations—The solution of ordinary differential equations, covering first and second order equations and linear equations; basic infinite series methods; stress on theory and on applications in astronomy, science, and engineering. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 312 Partial Differential Equations—An intensive course to increase the range and scope of applications involving differential equations; where possible, an indication of recent developments and treatment of theory by modern methods. *Prerequisite Ma 311.* 3 hours—3 credits.

Ma 314 Mathematical Statistics—A background course for intensive study at either the applied or theoretical level; the concepts and methods of elementary probability and statistics; proofs of theorems presented when possible, applications covered to a limited extent. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Introduction to Statistics (See BA 343).

Ma 403 Advanced Calculus—Advanced analytical methods with a modern approach in terminology and applications; advanced topics in multivariate calculus, infinite series, and certain specialized functions basic to further study. *Prerequisite Ma 301-302.* 3 hours—3 credits.

Music

All students who wish to study any branch of music in a given college year should consult their advisers and the head of the music department during registration week.

A. General

MU 101 FUNDAMENTALS OF MUSIC—A basic study of the science of sound; elements of notation; voice and choirs; instruments, band and orchestras; the directing of group singing; and a brief survey of the history of music. 3 hours—3 credits.

MU 103 SIGHT READING AND PART SINGING—A basic course to develop, together with a moderate amount of technical knowledge, the ability to read music at sight either for vocal or instrumental purposes. 2 hours—2 credits.

MU 203 HISTORY AND APPRECIATION OF MUSIC—A study of historical art periods with particular attention to great composers and their outstanding compositions. 3 hours—3 credits.

MU 204 CHURCH MUSIC—A study of the music of the Christian church—historical and practical—preparing the student for musical leadership in any Protestant denomination. 2 hours—2 credits.

Teaching of Music in the Elementary School (See Ed 318)

B. Applied Music and Music Organizations

A maximum of eight semester hours in Applied Music and/or Music Organizations may be applied towards an A.B. or B.S. degree. In Applied Music and Music Organizations the student is given opportunity to appear in public and is given instruction and advice in public appearance and performance. There is no charge for Music Organizations. No credit is given unless attendance at rehearsals and public performances is satisfactory and unless participation extends over the entire school year.

PIANO, VOICE, ORGAN (Private Instruction)

Students in Applied Music are accepted at any stage of progress, or as beginners, and are advanced as rapidly as their ability, industry, and thoroughness will permit. In Piano and Organ, technical exercises, etudes and Classic, Romantic and Modern pieces are indispensible elements of study at practically

all times. In Voice, the problems of vocal improvement, inclusive of tone placement, breath control, range, quality, volume, technique, and diction are kept constantly in mind. Songs and arias by Classical, Romantic, and Modern composers are used to develop taste and to build for the student a repertoire which will contain music appropriate for all occasions. One private lesson and five hours practice per week. 1 credit. (May be taken without credit.)

CONCERT BAND—Open to any student. Acceptance subject to approval by director. 3 hours—2 credits.
STRING ORCHESTRA—Open to any student. Acceptance subject to approval by director. 1 hour—1 credit.

CONCERT CHOIR—Open to any student. Acceptance based upon audition. This organization sings approximately thirty concerts a year including two tours and several Sunday concerts in churches of Eastern and Southern Pennsylvania. 3 hours—2 credits.

CHAPEL CHOIR—Open to any student. Performs sacred choral literature at Chapel services of the College. Occasional performances with the Concert Choir on campus. 1 hour—1 credit.

THE DUFAY SINGERS—A group of approximately eight students selected from those in the Concert Choir interested in singing music from the 15th to 18th centuries. 1 hour—1 credit.

WOMEN'S CHORUS—Open to any female student who enjoys singing sacred or secular music. 1 hour—1 credit.

MEN'S GLEE CLUB—Open to any male student who enjoys singing sacred or secular music. 1 hour—1 credit.

SMALL ENSEMBLE—VOCAL OR INSTRUMENTAL—1 hour—1 credit.

CHORAL UNION—A combination of all vocal groups united for the presentation of a great oratorio at sometime during the second semester. 1 hour—1 credit.

Physical Education and Health

PE 101-102 PHYSICAL EDUCATION FOR WOMEN—Instruction and practice in fundamental techniques of seasonal team, dual, and individual activities for development of basic skills, knowledge and attitudes in these activities. 2 hours—2 credits.

PE 103-104 Physical Education for Men—Organized activities in various sports and games. 2 hours—2 credits.

PE 111-112 Health and Hygiene—A study of personal health and hygiene; philosophy, educational principles and techniques applied to teaching situations in health and hygiene. 2 hours—2 credits.

PE 201-202 Advanced Physical Education for Women—A continuation of instruction and practice in seasonal activities with emphasis on advanced techniques, skills, and knowledge in these activities. *Prerequisite PE 101-102.* 2 hours—2 credits.

PE 203-204 Advanced Physical Education for Men—A continuation of Physical Education 103-104. *Prerequisite PE 103-104.* 2 hours—2 credits.

PE 206 Camp Counseling—Instruction and practical experience in camp activities and camp-craft with development of leadership in these activities and the camping program. By appointment. 3 hours—3 credits.

PE 207-208 Administration and Coaching—Organization and management of inter-scholastic and intra-mural programs and a study of the fundamentals of the various sports, rules, methods of play, techniques, skills, and coaching methods. Open to only Juniors and Seniors. 2 hours—4 credits.

PE 210 Recreational Leadership—Nature and function of recreation; adaptation of activities for family recreation, parties, picnics, clubs, and community centers. 3 hours—3 credits.

PE 211-212 Elementary Games and Activities—A consideration of games and activities appropriate to the physical development of the child at various elementary grade levels. 2 hours—2 credits.

PE 220 Individual Sports—Methods, techniques, and basic skills in selected sports. 3 hours—3 credits.

Students participating actively in varsity sports may, at the discretion of the instructor, be excused from Physical Education classes for the duration of their participation and may receive credit for the Physical Education course in which they are enrolled.

Physics

PHY 201-202 GENERAL PHYSICS—A study of the general laws of physics through lectures, quizzes, and demonstrations. *Prerequisite Ma 153 and 154 or Ma 101-102.* 3 hours *r,* 2 hours *l*—8 credits.

Physics 203, 204, 303, 304 form a group of courses which should be taken by those students desiring a more mathematical coverage of physics than is offered in Phy 201-202.

PHY 203 MECHANICS—Includes the following topics: elementary vectors, forces, moments, centers of gravity, linear motion, Newton's Laws, motion of projectiles, work, energy, impulse, momentum, circular motion elasticity, harmonic motion, gravitation, surface tension, viscosity, pressure, and fluid flow. *Prerequisite or concurrently Ma 201.* 3 hours *r,* 2 hours *l*—4 credits.

PHY 204 HEAT AND SOUND—Heat as it relates to temperature, thermal expansion, transfer, specific heat, fusion, vaporization, gases, entropy, and humidity; an introduction to heat cycles; a study of sound dealing with wave motion and various other properties. *Prerequisite Phy 203 and Ma 202 (or concurrently).* 3 hours *r,* 2 hours *l*—4 credits.

PHY 211-212 PRACTICAL ELECTRONICS—A foundation course in electronics with emphasis placed on the adaptability of electronics in the field of measurement. *Prerequisite Ma 101-102.* 2 hours *r,* 3 hours *l*—6 credits.

PHY 303 ELECTRICITY AND MAGNETISM—A study of electrostatistics and electro-magnetics including brief studies of Coulomb's Law, Gauss's Law, Ohm's Law, Kirchoff's Laws, measuring devices, resistors, capacitors, inductors, motors, generators, ferromagnetism, alternating current, radiation, and electronics. *Prerequisite Phy 204.* 3 hours *r,* 2 hours *l*—4 credits.

PHY 304 OPTICS—A study of light as to its nature and propogation; mirrors, lenses, optical devices, polarization, diffraction, photometry, and spectrophotometry. *Prerequisite Phy 303.* 3 hours *r,* 2 hours *l*—4 credits.

PHY 305 STATICS—A mathematical study of forces and their action on stationary bodies, including concurrent and non-concurrent forces, couples, stresses and strains, centroids, moments of inertia, weighted cords, and centers of pressure. *Prerequisite Phy 203 and Ma 201-202.* 3 hours—3 credits.

PHY 306 DYNAMICS—A mathematical study of bodies in motion including velocity, acceleration, work, energy, and momentum in terms of both linear and angular motion. *Prerequisite Phy 305.* 3 hours—3 credits.

Psychology

PS 101-102 GENERAL PSYCHOLOGY—An introduction to the general subject matter of the field aimed at giving the student an overview of psychology; consideration of such topics as motivation, learning, emotions, personality, sensation, and perception. 2 hours—4 credits.

Educational Psychology (See Ed 203).

PS 212 CHILD PSYCHOLOGY—The general growth, maturational, and emotional aspects of the child from conception to adolescence. *Prerequisite Ps 101-102.* 3 hours—3 credits.

PS 310-320 PSYCHOLOGY OF EXCEPTIONAL CHILDREN—An overall consideration of children who deviate from the generally accepted patterns of expected developments, with special attention to problems of mentally superior, mentally retarded, and physically handicapped children. *Prerequisite Ps 101-102.* 3 hours—6 credits.

PS 321 MENTAL HYGIENE—The relation of personal and environmental factors in the production of wholesome and unwholesome life adjustments; sources of emotional conflict together with factors that affect personality integration. *Prerequisite Ps 101-102.* 3 hours—3 credits.

PS 322 ABNORMAL PSYCHOLOGY—The study of various forms of personality maladjustment, their origin, treatment, social significance, and of preventive measures; attention to the relation of problems in adjustment for both the normal and deviant. *Prerequisite Ps 321 or permission of the instructor.* 3 hours—3 credits.

Ps 331 Social Psychology—The treatment of such topics as social perception, attitude formation, social roles, language and communication, interpersonal perception, and influences of socialization in the development of personality. *Prerequisite Ps 101-102.* 3 hours—3 credits.

Ps 342 Psychological Statistics—An introduction to the quantitative methods used in psychology, including the design of psychological experiments, surveys, and statistical studies, as well as the treatment and interpretation of results. *Prerequisite Ps 331.* 3 hours—3 credits.

Ps 402 Contemporary Theory in Psychology—Consideration of the different schools of psychology (behaviorism, gestalt, dynamic) and their contributions to areas of study such as personality and learning. *Prerequisite Ps 331.* 3 hours—3 credits.

Ps 411 Applied Psychology—A study of the applications of psychology in human relations; motivation of the individual, learning and memory, human efficiency, individual and sex differences, personality; applications in areas of communication and the professions. *Prerequisite Ps 101–102.* 3 hours—3 credits. Offered 1961–1962.

Ps 499 Senior Seminar in Psychology—Designed to give the advanced student an opportunity to apply the principles of experimental design in a research project. *Prerequisite Ps 342 and permission of the instructor.* 2 credits.

Sociology

So 151 Introduction to Sociology—A study of the group living of people, including a consideration of how social changes affect their culture and institutions. 3 hours—3 credits.

So 152 Social Problems—Consideration of the major problems of modern society, including crime, alcoholism, mental derangement, recreation, racial tensions, and others; an attempt to reveal the nature of the problems and to acquaint the student wtih what society is doing and can do about them. *Prerequisite So 151 (Not open to students who have completed more than ten semester hours in social studies).* 3 hours—3 credits.

Educational Sociology (See Ed 204).

So 304 Cultural Anthropology—A survey of the principles and findings of anthropology in comparative studies of several contemporary culture areas of the world; an evaluation of problems of personality formation in human relations, cultural disintegration, and cultural stability. *Prerequisite So 151.* 3 hours—3 credits.

So 306 Intergroup Relations—An analysis of intergroup relations involving racial, ethnic, and religious minorities in the United States and selected regions of the world. *Prerequisite So 151.* 3 hours—3 credits.

Social Psychology (See Ps 331).

So 403 The Family—A comparative study of different family patterns; a functional approach to questions related to courtship, engagement, and the early years of married life. *Prerequisite So 151.* 3 hours—3 credits.

So 404 Criminology—A consideration primarily of the causes of criminality, modern trends in the detection of law violators, the development of penal institutions, court procedures and programs designed to reform the criminal. *Prerequisite So 151.* 3 hours—3 credits. Offered 1962-1963.

So 405 Rural Sociology—A consideration of the rural environment and population, rural social organization, and social processes in rural society. *Prerequisite So 151.* 3 hours—3 credits.

So 406 Community Organization—A study of the structure and function of the community together with an analysis of existing individual and group relationships; emphasis upon intra-group and inter-group processes in the evaluation of community needs and the development of community resources. *Prerequisite So 151 (Open to only sociology majors).* 3 hours—3 credits. Offered 1961-1962.

Other Areas

Dr 115-116 Drawing and Descriptive Geometry—A study of reference planes, points, lines, curved surfaces, revolutions, true sizes, intersections, orthographic projection, isometric drawing, auxiliary views, sections, and developments. 1 hour r, 5 hours laboratory—4 credits.

GEOG 103-104 WORLD GEOGRAPHY—A study of the physical factors in man's environment and his adjustment to them; the world's landform features and mineral resources, climates, soils, and vegetation types and the political, economic, and social responses of man to them. 2 hours—4 credits.

GEOL 104 GEOLOGY—Includes Physical Geology, a study of the evolution of the earth's crust as revealed by the arrangement and content of the rocks, and Historical Geology dealing with the sequence of events of prehistorical times as revealed by a study of fossils. 3 hours r, 3 hours laboratory—4 credits.

HU 251 HISTORY AND APPRECIATION OF THE FINE ARTS—A consideration of the arts of painting, sculpture, and architecture as they have emerged in Western civilization and characterize common aesthetic codes evident in the related arts of music, literature, and the decorative arts. 2 hours—2 credits.

HU 350 CULTURAL ARTS—Designed to treat the material of History and Appreciation of the Fine Arts on a seminar basis through world travel or in a formal class situation. 3 credits.

PHYSC 203-204 PHYSICAL SCIENCE—An introduction to the scientific view of the physical world; topics in astronomy, meteorology, and geology during the first semester and in chemistry and physics during the second. *Prerequisite Ma 151.* 3 hours—6 credits.

SU 220 SURVEYING—An introductory course including the use of drawing instruments, map drawing, the adjustment and use of the transit; taking of field notes, computation of areas, simple farm surveying, profile leveling, and curves; field work included. *Prerequisite Ma 153-154.* 5 hours—3 credits.

Number Code and Identification of Terms

COURSES ARE IN MOST CASES NUMBERED ACCORDING TO THE FOLLOWING PATTERN:

Numbers 100 to 199 for freshman courses
Numbers 200 to 299 for sophomore courses
Numbers 300 to 399 for junior courses
Numbers 400 to 499 for senior courses
Number 499 is used for seminar courses in all departments

Fall semester courses end with odd numbers

Spring semester courses end with even numbers

Courses offered regularly in both semesters are identified with the middle number "5"

Courses offered only in Summer Sessions and Extension School end with "0"

With the exception of Bi 101, En 201, Geog 101, and Hi 101, courses ending with numbers "01" are prerequisite to courses ending with numbers "02."

TERMS USED FOLLOWING COURSE DESCRIPTIONS ARE INTERPRETED AS FOLLOWS:

"hours" represents clock hours per week of recitation

"hours *r*" and "hours *l*" indicate clock hours per week of recitation and of laboratory respectively

"credits" represents semester hours credit for the course—for one semester in the case of single semester courses, and for both semesters in the case of two semester courses.

Social Studies includes courses listed under history and political science, geography, psychology, and sociology.

Student Activities

IN THE BELIEF that the total college experience should include more than purely academic pursuits, Elizabethtown College has established a broad program of student activities, including an active Student Government program, clubs, music organizations, and publications.

All students are encouraged to take part in some phase of the extra-curricular activities as a means of providing balance and variety to life on the campus.

Student Government Organizations

All students are members of the Student Association, the governing bodies of which include the Student Senate and the Committees on Men's and Women's Affairs.

The Student Senate

The chief governing body of the Student Association is the Student Senate, which is responsible for coordinating all activities of the Association. There are eleven members in the Senate, including officers, all elected annually by the student body at large.

The Senate meets at least once a month during the academic year, and all sessions are open to members of the Student Association.

The Constitution of the Student Association is printed in the student hand book, the *Rudder*.

The Committees on Men's And Women's Affairs

These two committees deal directly with student affairs.

The Committee on Women's Affairs is composed of eight women students elected by the women of the student body. Six members represent boarding students and two represent commuting students. Members are nominated by their respective groups.

The Committee on Men's Affairs is composed of eight men students elected by the men of the student body. As with the Committee on Women's Affairs, six members represent the boarding students, two represent the day students. Members are nominated by their respective groups.

The Dean of Men and the Dean of Women serve as advisors to these committees. By request of the Deans, actions by the committees may be reviewed administratively.

Student Christian Organizations

Since Elizabethtown College is a Christian institution, every effort is made to encourage religious organizations on the campus. Overall coordination of student religious activities is given to the Elizabethtown College Christian Association, a non-denominational organization open to all students and faculty.

Regular monthly devotional services are conducted by such denominational groups as the Church of the Brethren Youth Fellowship, the Lutheran Student Association, the Canterbury Club, Methodist students, Presbyterian students, and others. These denominational organizations usually coordinate their activities with related churches in the area.

Another organization designed for men students preparing for full-time church vocations is Eta Gamma Kappa, a student ministers' group.

Campus Clubs

A number of established student clubs provide opportunities for broad ranges of interest. They include the following:

German Club

The German Club seeks to preserve German culture through interest in German music, art, and literature.

Pennsylvania State Education Association

The campus chapter of this organization emphasizes the objectives of American education. It is designed primarily for students preparing for teaching careers.

Phi Beta Chi

This society has a two-fold purpose: to encourage and foster undergraduate work in science and to provide closer contacts among students interested in science.

Political Science Club

This is an organization which fosters understanding of the processes of American government and knowledge of international relations.

Society for Advancement of Management

The College chapter of this organization is one of 150 in the university division of the national organization whose purpose is to bring together executives in business with students preparing to enter all fields of business.

Sock and Buskin

The chief dramatics organization on the campus, this club seeks to stimulate interest in the interpretation of the leading dramas of the day. Activities include the production of several dramatic programs each year.

Dramatic Workshop

This organization is designed to bring together students interested in any form of drama production. After a period of successful participation, members may be admitted to the Sock and Buskin Club.

Other clubs may be organized as and when the demand arises.

College Publications

Among the publications produced all or in part by students are the campus newspaper, the College yearbook, and a student handbook.

The Etownian

The College newspaper, *The Etownian,* is published semimonthly by students during the academic year. Monthly editions are published during June and July. The newspaper is designed to inform students about campus affairs and to reflect student views. A monthly Alumni Edition is prepared for mailing to alumni and others interested in the College.

The Conestogan

The College yearbook, *The Conestogan,* is published each spring. It is designed to record the highlights of life at the College during the year for historical and personal reference by students in the years after they leave the campus. All students receive a copy as part of the fee paid to the College.

The Rudder

The student handbook, the *Rudder,* edited each year by the Student Senate, is sent to all freshmen a few weeks before registration. It contains information on preparing for campus life as well as College regulations not listed in the catalog.

Other publications are prepared by the Department of Public Information of the College. These include special bulletins dealing with alumni activities, admissions, summer sessions, activities of the development program, the annual report of the president of the College, and others.

Music Organizations

A number of musical organizations, both choral and instrumental, are open to interested students. These include the concert band, string orchestra, concert choir, chapel choir, women's chorus, and men's glee club.

Further information on each of these organizations can be found in the "Courses of Instruction" section of this catalog, under Music.

Student Financial Aid

THE COLLEGE OFFERS several types of financial assistance to qualified students who show special need. Students may apply for academic scholarships, grants-in-aid, loans, and self-help work assignments.

In order to qualify for financial assistance, students must be enrolled for full-time studies, meet required academic standards, agree to operate on an approved personal budget, and agree to cooperate with the College in maintaining the ideals and high standards of conduct of the student body.

A Student Financial Aid Committee coordinates and awards all student assistance.

Academic Scholarships

All scholarship candidates should take the Scholastic Aptitude Test of the College Entrance Examination Board. Applications for scholarships should be presented on the Princeton Scholarship Service Form, available from the Educational Testing Service, Princeton, New Jersey, or from the college admissions office.

Holders of scholarships must maintain a scholastic average indicated by the following quality point ratios in order to be eligible for the renewal of said scholarships: at the end of the Freshman year 2.25; at the end of the Sophomore year 2.50; at the end of the Junior year 2.75. For quality point values see page 15.

Among funds available for scholarship purposes are those known as the Charles Troxell Royer Memorial, and the Student Volunteer Missionary Scholarship. The College is one of fifteen institutions which Pennsylvania Power and Light scholarship winners may attend (information on which may be obtained from company offices in Allentown, Pennsylvania). A Nursing Education Scholarship is available through the Nursing Education Council of Bethany Hospital, Chicago.

Scholarships are awarded by a faculty committee. For current announcements and additional information write the Director of Admissions, Elizabethtown College.

Loans

Various general and specific loan funds are available for worthy students in financial need. Financial need is determined by means of a detailed questionnaire to be completed by the parent or guardian of the student involved.

Monies available include those known as the David E. Brandt Loan Fund, the Harrisburg Church Loan Fund, the Emmanuel G. Hoff Loan Fund, the Stanley H. Ober Loan Fund, the Samuel S. Gibble Loan Fund, the Alumni Loan Fund, the Daniel E. Fox Loan Fund, the Dr. W. A. Pearson Loan Fund, the Church of the Brethren Rotary Loan Fund, the Phoebe Longenecker Stutzman Loan Fund, the Hollinger-Kilhefner Loan Fund, the William G. Nyce Loan Fund, and others.

The college is certified as a participant in the National Defense Student Loan Program.

Information concerning loans may be obtained from the Treasurer of the College.

Grants-In-Aid

Students who have special abilities are given financial help in the form of grants for a particular skill; i.e., athletics, music, journalism. These grants are awarded upon the recommendation of the Head of the Department involved.

Self-Help

The College provides a limited number of self-help assignments for worthy students. The dollar value of the assignment depends upon the nature of the work involved. Students who have been regularly enrolled are given first opportunity for these assignments. Applications may be procured through the Student Personnel Office.

The Student Financial Aid Committee reserves the right to review and revise any student financial agreement in light of additional or new information not known to the committee at the time the agreement was made.

Trustees, Administration, Faculty

THE TOTAL PROGRAM of the College is carried out by three groups: the Board of Trustees, the Administrative Staff, and the Faculty.

The Trustees, elected to represent the Church of the Brethren and the alumni, give general guidance to the broad program of the College, approve the operational procedures, and assist in providing the financial resources needed to operate the institution.

The Administrative Staff is responsible for the day-to-day operation of the College, including business affairs, public relations, campus maintenance, and general services.

The Faculty of the College, headed by the Dean of Instruction, implements the instructional program of the College.

Board of Trustees

Dr. Joseph W. Kettering, *Chairman*—1962

Mr. Cyrus G. Bucher—1961

Miss Martha A. Bucher, *Secretary*—1963

Dr. Frank S. Carper—1962

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The Reverend S. Clyde Weaver—1961

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Walter E. Brown—*Superintendent of Buildings and Grounds*
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Vera R. Hackman, A.B., M.A.—
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J. Robert Hollinger—*Bookkeeper*
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Doris O. Lewis—*Secretary to the President*
Wilbur E. Weaver, B.S., M.Ed.—
Assistant to the Treasurer and Manager of the Store
James L. M. Yeingst, A.B.—*Director of Public Relations*
Robert S. Young—*Administrative Assistant*

DIRECTORS OF RESIDENCE

Grace N. Allan
Jessie K. Cosner
Mary Cox
Ethel L. Heaton
Ira D. Brandt
Martha O. Brandt

ELIZABETHTOWN COLLEGE

FACULTY

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A.B., Muskingum College; M.S., University of Pittsburgh; Ph.D., University of Pennsylvania.

CHARLES S. APGAR, *Professor of Biology, Head, Department of Biology*
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ERTEM ASRAL, *Assistant Professor of English*
B.A., University of Ankara; M.A., University of Kentucky; Ph.D., University of Pennsylvania.

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B.S., Findlay College; M.Ed., Oklahoma State University.

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B.S., Elizabethtown College; Temple University; Wharton School of Business of the University of Pennsylvania; M.A., New York University.

David I. Lasky, *Assistant Professor of Psychology, Head, Department of Psychology*
A.B., Temple University; A.M., Temple University; Ph.D., Temple University.

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Elizabethtown College

Emeritii

1961-1962

A. C. Baugher, *President Emeritus*
Pd.B., Elizabethtown College; A.B., Elizabethtown College; B.S., Franklin and Marshall College; M.S., University of Pennsylvania; Ph.D., New York University; LL.D., Franklin and Marshall College; Columbia University.

Ira R. Herr, *Professor Emeritus of Physical Education*
A.B., Franklin and Marshall College; University of Pennsylvania; Temple University.

J. Z. Herr, *Emeritus Treasurer and Business Manager*
B.E., Elizabethtown College; Columbia University.

Martha Martin, *Professor Emeritus of Bible*
A.B., Elizabethtown College; Bethany Biblical Seminary; Biblical Seminary of New York; University of Pennsylvania.

Gertrude Royer Meyer, *Professor Emeritus of Piano*
Graduate in Music, Western Maryland College; Columbia University; Piano Clinic, New York City; Peabody Conservatory of Music.

Mary B. Reber, *Professor Emeritus of Art*
B.E., Elizabethtown College; Albright College; Columbia University.

L. D. Rose, *Emeritus Librarian and Professor of German*
A.B., Ursinus College; A.M., University of Pennsylvania; University of Pennsylvania.

Gibble Science Building

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SEAL OF ELIZABETHTOWN COLLEGE
Deus Lux et Veritas
EDUCATE
FOR
SERVICE
1899

1963-64-65

ELIZABETHTOWN COLLEGE BULLETIN

ELIZABETHTOWN, PENNSYLVANIA

The Liberal Arts

ELIZABETHTOWN COLLEGE subscribes to the Liberal Arts philosophy of learning, which seeks to deepen and broaden man's knowledge of his heritage and the world in which he lives.

A Liberal Arts education is concerned with the molding of the whole man: his appreciation of the beauty of the fine arts through literature and music, his understanding of the physical world through science, his insight to the dynamics of society through the social sciences, his role in the moral universe through philosophy and religion.

The Liberal Arts sharpen the student's ability to think clearly, to reason soundly, to communicate effectively, to measure human values incisively.

Reaching back to encompass the gathered knowledge of the ages, the Liberal Arts are alive and vibrant in the modern world. Their mastery gives new meaning to life.

Elizabethtown College Bulletin

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ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

Entered as second class matter June 14, 1915, at the Post Office at Elizabethtown, Pa., under Act of Congress of August 24, 1912. (No subscription price.)

The College: Its History and Purpose

SHORTLY before the dawn of the current century, a group of earnest men, all members of the Church of the Brethren, strode purposefully across the broad acres of farm land that were to become the campus of Elizabethtown College.

On a slight hill they stopped, looked over the surrounding countryside, and then quietly agreed that this was the site for which they were looking. The hill on which they stood became the location for Alpha Hall, the first building of the new college.

A charter for the college was received from the Commonwealth of Pennsylvania on September 23, 1899. Classes officially began in November of the following year.

Supported at first by individual contributions, the College in time became the responsibility of the Eastern and Southern Pennsylvania Districts of the Church of the Brethren. The Church officially assumed the responsibility for operating the College in January, 1919.

With the advancing years, the College grew in the size of its enrollment, the extent of its physical facilities, and the quality of its curriculum.

Formal accreditation was granted in 1921 by the Pennsylvania Department of Public Instruction and in 1948 by the Middle States Association of Colleges and Secondary Schools.

Elizabethtown College has taken its place in the circle of American higher education. It holds membership in the Association of American Colleges and the American Council on Education. It has been approved by the American Association of University Women.

"Harmonious Development"

In the words of the founding fathers, as recorded in the original charter, the purpose of the College is "to give such harmonious development to the physical, mental, and moral powers of both sexes as will best fit them for the duties of life and promote their spiritual interests."

Elizabethtown College is, in every aspect of its program, a Christian institution. Its facilities are open to all without discrimination.

Deeply rooted in the philosophy of the College are the beliefs that a clean body and a clear mind are basic requirements for a Christian life, that men and women can serve God through any vocation which serves the needs of mankind, that life in college requires hard work and firmness of purpose, that genuine culture is the result of knowledge coupled with Christian character.

Broadly stated, the purpose of Elizabethtown College is to train students through a balanced program of Christian living, sound academic studies, physical fitness, and social insight. All aspects of life on the campus are included in this program.

The Campus

IN many respects, the personality of a college is reflected by its campus, which provides the physical setting for its various activities: academic, spiritual, social.

Students at Elizabethtown College live and work on a 75-acre campus, which includes a broad dell. a lake, and numerous trees. The general setting is one of quiet, natural beauty.

The main buildings, strategically located in relation to each other, are designed in modern colonial architecture, which blends well with the surrounding landscape.

A. C. Baugher Student Center was completed in the fall of 1962. Built around the alumni auditorium-gymnasium, this modern structure houses the college post office, the campus bookstore, a snack bar, bowling alleys, swimming pool, lounges and conference rooms of various sizes. It is the center for student extra-curricular activities.

Alpha Hall, the oldest building, is the administrative center of the campus. Facilities located here include the business office, student admissions, student records and services, public relations, and various administrative offices.

Fairview Residence for Women is one of the smaller women's dormitories with facilities for housing 56 students.

Gibble Science Hall, recently enlarged by the addition of a new wing, provides well-equipped laboratories for students in chemistry, biology, and physics. In addition, there are several well-designed classrooms and the large Brinser Lecture Hall.

The College Infirmary was renovated to provide separate campus medical facilities for both men and women. Registered nurses make up the staff of the infirmary and are on call at all times during the academic year.

Elizabeth Myer Hall, a women's dormitory, one of the more recent additions to the campus, has living accommodations for 132 students. The College Dining Room, which can seat as many as 360 comfortably, is located in one wing of the building.

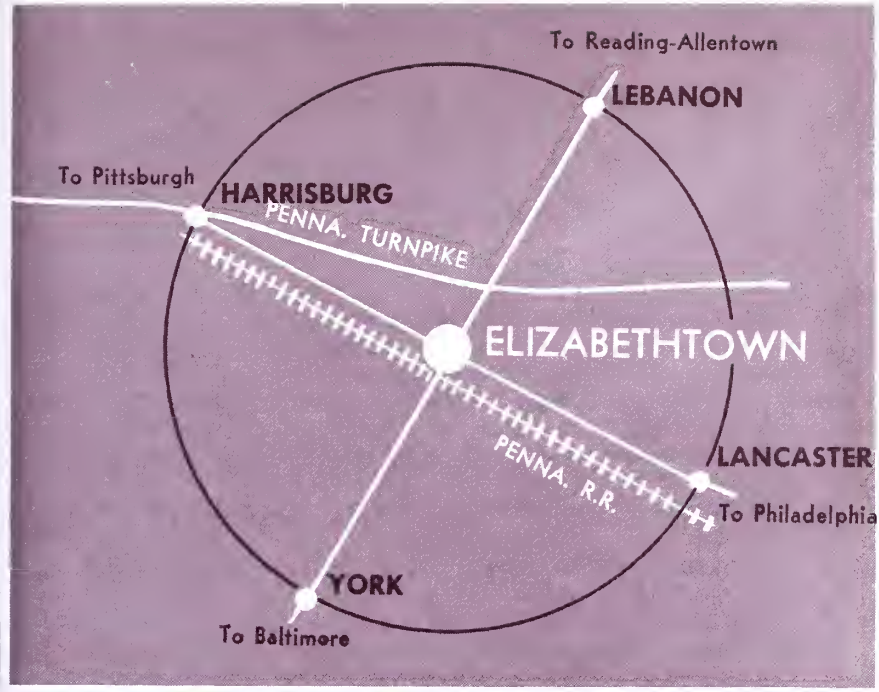
H. K. Ober Hall, a men's dormitory completed in 1960, is the largest building on the campus. It has pleasant living facilities for 230 students, including lounges, laundry rooms, game rooms.

Rider Hall, located near the center of the campus, is used as a classroom building.

The Mary Royer Residence for women was completed and occupied in the fall of 1962. This modern dormitory includes lounges and laundry facilities, and provides complete housing for 130 women students.

Zug Memorial Library is centrally located for easy access by students. It contains approximately 35,000 volumes of reference material. In addition, there are approximately 250 selected periodicals, a microfilm scanner, and record-playing facilities available.

Other buildings on the campus include West Hall which houses the Department of Music; North, South and Center Halls, which house classrooms and faculty offices; and the Business Education Building. There are also several small residences on the periphery of the campus used as honors houses for students.



Location

THE 75-acre Elizabethtown College campus is located in Elizabethtown, a residential community in Lancaster County with a population of slightly under 7,000.

The surrounding area contains some of the most desirable agricultural country in the Nation as well as prosperous industrial centers producing a wide variety of commodities, including steel, aluminum, building materials, appliances, and timepieces.

Elizabethtown is situated in the midst of several of the larger communities in southeastern Pennsylvania, including Lancaster, Lebanon, Harrisburg, York, and Reading. It is approximately a hundred miles from such metropolitan centers as Philadelphia, Baltimore, and Washington, D. C.

Elizabethtown has complete facilities for shopping, banking, and other personal services.

Access to Elizabethtown can be had directly by the Pennsylvania Railroad and U. S. Route 230. An interchange of the Pennsylvania Turnpike is available at Highspire, approximately ten miles from Elizabethtown on Route 230. The Harrisburg-York Airport and the Lancaster Airport are within a 35-minute drive of the campus.

The Academic Program

THE information in the College Bulletin is the student's guide for the planning of his courses for the fulfillment of his degree requirements. Faculty advisors and administrative counselors work with him for each semester's registration. However, the student is expected to be familiar with the information in the bulletin and is personally responsible for arranging a program meeting all requirements for his degree.

Admission to the College

From the young men and women who apply for admission to Elizabethtown College, those whose records of character, scholarship, and health suggest that they are fitted to do acceptable college work are selected.

Certain guiding principles are used as applications are evaluated:

1. That the student be a graduate of a senior high school accredited by the Regional Accrediting Agency or by the Department of Education of the state in which he lives.
2. That he be recommended by his high school principal and/or guidance counselor.
3. That he complete a satisfactory College Preparatory Course. If a student has not completed such a course but is deemed, through test scores or other means of evaluating his potential, qualified for entrance, he may be admitted.
4. That he take the Scholastic Aptitude Test given by the College Entrance Examination Board. (The application blank for the test and a Bulletin of Information may be obtained by writing to The College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.)

The student wishing to enter Elizabethtown College should write to the Director of Admissions for an application blank and advisably for an interview on campus unless he has been interviewed by a College representative off-campus.

After admission and before entrance into college, a student must supply a physician's report of good health in a form sent to him by the Director of Admissions.

Early Admissions Plan

In a sincere effort to provide an opportunity for academic acceleration by superior students, Elizabethtown College has initiated a program under which carefully selected pupils may begin their higher education immediately after completing the junior year in high school.

Students enrolled under this program become full-fledged freshmen at the College and, upon successful completion of the freshman year, are granted a high school diploma in addition to the college credits earned. The program has the full cooperation and support of the Pennsylvania Department of Public Instruction.

All degree programs at the College are available to these selected students, who are expected to exhibit the mental and emotional maturity necessary to adjust to the general program of the College. Following enrollment, students receive close personal counseling by selected faculty members.

All applicants for the accelerated admission program are carefully screened on a highly individualized basis. Particular attention is given to the following personality factors: mental ability, scholastic achievement, social and physical maturity, and personal motivation.

To be accepted, students must have completed the eleventh year in an accredited high school program and rank in the upper percentiles of their high school class.

Scholastic Aptitude Test scores and other test results are given weighty consideration.

The opinions and predictions of the student's high school principal and guidance counselor are of prime importance, as are those of College's department head in the particular discipline elected by the applicant.

The complete approval of the student's parents, high school principal, and guidance counselor is mandatory before the student can be accepted. Others participating in the selection process are the Dean of Instruction of Elizabethtown College, the College's Director of Admissions, and the Director of Testing at the College.

In addition to the indicated statistical data, the selection process includes a conference with the student by College officers in the presence of the parents, principal, and guidance counselor.

Any student interested in applying for this accelerated program should first discuss the matter thoroughly with the high school guidance counselor and then write to the Director of Admissions at Elizabethtown College for an application form.

Admission to Advanced Standing

Students may be admitted to advanced standing up to the beginning of the senior year on the following basis:

By EXAMINATION. Examinations are given only to those who have teaching experience or practical work in the subjects in which the examination is sought, or to those who have pursued such courses under approved instruction. These tests will be graded passing or failing. Neither letter grades nor quality points will be given. The cost of these examinations is $15.00 per semester hour credit.

ADVANCED PLACEMENT PROGRAM (CEEB). Elizabethtown College participates in the Advanced Placement Program of the College Entrance Examination Board. With the approval of the department concerned and the Dean of Instruction, advanced placement and credit are granted to students who perform satisfactorily in college-level courses in secondary school and on the Advanced Placement Examinations. Although advanced placement credit may be allowed, such credit does not count toward the 128 semester-hour requirement for graduation.

EXAMINATION FOR CERTIFICATION. One exception to the procedure as stated above involves the Business Education students who are required to have typing and shorthand on their transcripts. These students are privileged to take a proficiency examination upon payment of a fee of $5.00. The student who passes the examination is given advanced placement and in addition, the appropriate semester-hour credit with the understanding that he must fulfill the graduation requirement of 128 semester hours over and above the advanced placement credits.

FROM OTHER COLLEGES. The transfer student must present a secondary school record together with an official transcript indicating work completed at and honorable dismissal from any college or all colleges which he has attended.

For any student entering Elizabethtown College by transfer, a minimum of 96 semester hours will be required for graduation if he has attended another

college for one year, 64 semester hours if for two years, and 32 semester hours if for three years.

All students who transfer to Elizabethtown College are required to pass a competency examination in English. Students who fail to meet the minimum standards are required to enroll in En 101 English Composition and will not be granted credit for a similar course in transfer.

Veterans Entering Elizabethtown College

Elizabethtown College is approved for the training of veterans under Public Laws 550 (Korean), 16 and 894 (Rehabilitation Acts), and 634 (War Orphans).

All veterans who are admitted under the provisions of one of the public laws must furnish the treasurer of the college with a certificate of eligibility and entitlement on the day of registration or before. This certificate is procured from the Regional Office of the Veterans Administration. Veterans are urged to apply for educational benefits two months before they expect to enter college.

The veteran is personally responsible to the college for the payment of fees on regularly scheduled dates for payment.

Handicapped Students at Elizabethtown College

Elizabethtown College admits a limited number of handicapped students. Such students are asked to give evidence of satisfactory arrangements for care and movement to and from classes and about the campus before final acceptance will be granted. The College cannot assume any responsibility for classroom or dormitory adjustments, or provide special tutoring or other assistance. A physician's personal statement concerning physical capabilities and limitations of the student must be presented.

Zug Memorial Library

The Curricula

ELIZABETHTOWN College offers courses leading to three degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Education.

A student may select as a major in the Bachelor of Arts program any of the following: Bible and Philosophy, English, Foreign Language, History and Political Science, Mathematics, Social Studies, or Sociology and Psychology.

In the Bachelor of Science program he may choose Accounting, Biology, Business Administration, Chemistry, Mathematics. Medical Technology, Nursing, Pre-medical sciences, or Physics.

The student pursuing the Bachelor of Science degree in Education may major in Business Education, Elementary Education, Secondary Education, or Music Education.

Requirements for the three degrees with the various majors are set forth on pages 20 through 79 in this bulletin.

In all curricula in which a two-year language requirement is indicated, the completion of the second college year will meet the requirement. A student having completed two years of a language in high school will receive college credit if he enrolls for the first year of the same language only if he is assigned to the class as a result of his placement examination score.

The Student's Program

The entering freshman is admitted into one of the degree programs indicated above. The work of his first two years is prescribed to a large extent to ensure him a foundation in general education and enable him to select his field of concentration wisely.

In most curricula a wide range of electives is offered in the junior and senior years. The student will take the prescribed courses outlined for each consecutive year. The College is not responsible to arrange the scheduling of courses out of sequence. To change from one curriculum to another, the student must secure permission from the Dean.

Since the completion of 128 semester hours of work is required for a degree, a student's program must include an average of 16 semester hours for each of the eight semesters of a four year program. Normally he may carry up to 18 semester hours of work in any given semester.

With his faculty adviser he arranges each semester's program to include the courses outlined in the catalog for the curriculum which he is pursuing. His electives are chosen in consultation with his adviser.

A student who has achieved a cumulative quality point-credit ratio of 3.0 or above may carry up to 20 semester hours credit in a semester and may complete his work in a minimum of three years and twenty weeks. The maximum number of semester hours any student may carry in a given semester is 20. For each semester hour above 18 for which a student is enrolled in a given semester, an additional fee is charged.

Any student taking 8 hours or more of credit per semester at Elizabethtown College is considered a full time student and will pay full tuition and fees. Any student taking 7 hours or less per semester will pay the regular semester hour rate, plus essential fees. He will receive a library card entitling him to full use of the library facilities.

Absences and Withdrawals

It is the responsibility of each student to attend classes regularly and punctually. Absences caused by ill health, death in the immediate family, participation in intercollegiate events, field trips, and other college assigned and approved activities are cleared through the Office of the Dean of Instruction. A student desiring make-up privileges for an absence must present legitimate reason to the professor and/or the Dean of Instruction.

At the beginning of each course, the professor indicates his absence policies to the students in his classes. Excessive absence and tardiness are handled administratively. A student who may have been dismissed from a course for excessive absences may be reinstated by permission of the Dean of Instruction.

The administrative attitude toward class absence indicates that the academically superior students should be allowed some flexibility in class attendance, and the academically inferior students should be under more rigid class attendance demands.

Absences immediately preceding and immediately following cataloged vacations will be counted double.

A student who is absent when an examination is given must secure permission from the Dean of Instruction in order to take the examination. For a make-up examination which he is permitted to take, he will be charged $1.00 per semester hour except in the case of final examinations for which he will be charged $2.00 per semester hour.

Withdrawal from college is initiated through the Office of the Dean of Student Personnel Services. For purposes of billing and responsibility for class attendance, the date of notification of the Dean of Student Personnel Services is his official date of withdrawal. Withdrawal without notification calls for no refund in tuition. Failure to comply with this policy may result in loss of the privilege of readmission to the College, and forfeiture of the right to a clear transcript of credits and honorable dismissal.

Credits, Grades, and Quality Points

Credit is indicated in terms of the semester hour. Each semester hour unit signifies work completed in one fifty-minute recitation or two or more fifty-minute laboratory periods per week for a semester of sixteen to eighteen weeks or in an equivalent amount of time in summer sessions.

Grades are reported for work as follows: A, excellent; B, good; C, satisfactory; D, poor; F, failing; W, withdrawal. with the grades earned at the time of withdrawal from class. (All class withdrawals must be approved by the adviser and the Dean of Instruction. Withdrawal without approval effects automatically a grade of F); I, work incomplete. If a grade of I is not removed within one semester after the close of a course, the grade recorded on the permanent record automatically becomes an F.

Quality points are given for credits as follows: for a grade of A, 4 per semester hour; B, 3 per semester hour; C, 2 per semester hour; D, 1 per semester hour; F, no quality points.

Academic Requirements and Class Standing

The academic success of a student is measured in terms of grades and quality points. Although a grade of D is passing, a grade of C is considered the lowest satisfactory grade. When a student falls below a cumulative quality point-credit ratio of 2.0, which represents an average grade of C, he is in academic difficulty and will therefore be permitted to carry a maximum of

15 semester hours in a given semester so that he may improve his situation. Only when his cumulative ratio has again reached 2.0 will he be permitted to carry 16 to 18 semester hours' work in a given semester. When a student has a quality point deficiency, the Dean of Instruction will call him for a conference.

If at the end of his first semester in college the student has a cumulative quality point-credit ratio below 1.5, at the end of his second semester below 1.8, at the end of his second year below 1.9, or at the end of his third year below 2.0, he is placed on academic probation. A student on academic probation may be requested to withdraw from college anytime the administration so decides after a consideration of his over-all situation.

The student's class standing is determined on the basis of the number of credits he has earned. After earning 30 credits, he is considered a sophomore; with 60 credits he is a junior; with 90 credits he is a senior.

Except in cases in which the curriculum outlines in the catalog such courses during the junior and senior years, or by special permission of the Academic Dean, a student who has earned 70 credits will not be given semester hour credit or quality points for courses numbered below 200; once he has earned 108 credits, he will not be given semester hour credit or quality points for courses numbered below 300. He may, however, take these courses to fulfill specific graduation requirements.

Prizes

Each year a number of individuals, organizations, and corporations confer various awards and prizes for specific accomplishments in divergent areas. Among the established prizes are The Royer Bible Prize, the Weaver Biology Prize, the Butterbaugh Chemistry Prize, the Kettering Accounting Prize, the Raffensperger Journalism Prize, the Dr. John Robert Gregg Memorial Award, the Pennsylvania Institute of Certified Public Accounting Award, the Wall Street Journal Award, and others.

Information concerning these and other prizes and awards may be obtained from the Dean of the College or heads of departments involved.

Dean's List and Graduation with Honors

A student having earned an average grade of B+, a quality point-credit ratio of 3.50 or above, is regarded by the college as having performed with distinction.

Students earning a 3.50 or better quality point ratio in any given semester are placed on the "Dean's List of Honor Students."

At the time of his graduation, a student who has achieved a cumulative quality point-credit ratio of 3.50 will be graduated with cum laude distinction; with a ratio of 3.75, his honor will be magna cum laude; with a ratio of 3.90, he will receive summa cum laude distinction. A transfer student will receive honors only if he has earned 60 semester hours credit at Elizabethtown College, if his total quality point-credit ratio is at least 3.50 and if his ratio at Elizabethtown College is at least 3.50. Having met these requirements, he will receive the honor indicated by his ratio on his Elizabethtown College work alone.

Graduation from Elizabethtown College

To be graduated from Elizabethtown College, the student must obtain 128 semester hours credit, or in the case of engineering, medical technology, and nursing majors the number indicated in the course outline, and all of the specific

courses indicated, together with the requirements for his major field. No more than ten semester hours' credit in Workshop courses is applicable towards a degree; a Workshop in any area will be counted no more than two times.

Requirements will be governed by the catalog dated four years prior to an individual's graduation, or by the catalog in effect at the time of his graduation, if he so chooses.

In order for the student to meet graduation requirements, he must have earned a minimum of 30 semester hours in classes on the Elizabethtown College campus and a minimum of 30 semester hours in courses numbered 300 and above from Elizabethtown College.

Every graduate is required to have been in attendance in college for a minimum of three years and thirty weeks unless he has earned a cumulative quality point-credit ratio of at least 3.0, in which case he may complete his work in three years and twenty weeks. Any deviation from this procedure must have the approval of the Committee on Administration.

Elizabethtown College will graduate only those students who have met the moral and financial obligations incurred while they have been in pursuit of their college courses. The completion of the required number of semester hours does not in itself constitute eligibility for graduation.

Degrees will not be granted in absentia without special permission by the Administrative Committee.

It is the responsibility of the candidate for a degree in February, May, or August to make formal application for the degree in writing to the Dean of Instruction at least four weeks before graduation.

In order to be eligible for graduation, students must have a credit quality point ratio of at least 2.00. Students transferring from other colleges must have a ratio of at least 2.00 in courses pursued at Elizabethtown College.

Special Programs

Cooperative Program of Undergraduate Study Abroad

THE six colleges associated with the Church of the Brethren are cooperating in a junior year of study at Marburg, West Germany. Courses are offered in such areas as literature, history, religion, philosophy, international relations, political science, economics, cultural anthropology, and possibly art and music history. Most of the program in any given year is taught by an American professor from one of the cooperating colleges. However, it is possible for at least some of the students to take one or more courses at the university, the official name of which is Philipps-Universitat, Marburg/Lahn.

Students interested in this program must have had at least two years of college level study in the German language. Further provision for orientation to the German language, as well as to the culture generally, precedes the opening of the program each fall. In addition to an adequate knowledge of the language, the qualifications include intellectual capacity, seriousness of purpose, good character, demonstrated potential for social adjustment, a basic understanding of the United States and the host country, good health, and initiative.

The program accommodates approximately 25 students each year. Elizabethtown College has a quota of four. Further information may be obtained from the Dean of Instruction.

Merrill-Palmer Institute

The Merrill-Palmer Institute of Human Development located in Detroit, Michigan, has approved Elizabethtown College as a cooperating institution in its undergraduate program in the behavioral sciences.

The Merrill-Palmer Institute, founded in 1920, is a non-degree granting institution of higher education. Its program includes teaching, research, and community services.

The co-educational body is composed of both graduates and undergraduates from colleges and universities throughout the United States and abroad.

In addition to pursuing advanced theory courses, the Merrill-Palmer undergraduate aids in conducting research and has the opportunity to meet and work with some of the outstanding individuals in the field of behavioral sciences today.

To be eligible, the student must be entering either the second semester of his junior year or the first semester of his senior year.

At the Institute, he will register for 15–17 semester-hours, which will be accepted for credit when he returns to Elizabethtown the following semester.

Although the program is intended primarily for students in the behavioral sciences, other students having an interest will be considered.

Teachers for West Africa Program

Elizabethtown College, under a grant from the Hershey Chocolate Corporation, selects a limited number of applicants for teaching posts in the secondary schools of Ghana and Western Nigeria. This grant is a concrete expression of interest in bettering relations between the people of Africa and the United States through a vital cooperation at the secondary school education level.

Elizabethtown College selects teachers with strong teaching fields in chemistry, physics, biology, mathematics, English, French, industrial arts, and business administration. They are recruited from the seniors and alumni of colleges

and universities of high academic standing. The teacher enters into a contract with the employing African government, political sub-division, Ministry of Education, or individual school. The Program makes it possible for the teacher to be placed on the field for this employment by providing the transportation and shipping costs for the teacher employed.

Further information can be obtained by contacting the Director, Dr. James M. Berkebile, Elizabethtown College.

Harrisburg Area Center for Higher Education

In cooperation with the Pennsylvania State University, Temple University, the University of Pennsylvania, and Lebanon Valley College, Elizabethtown College offers accredited college level courses in Harrisburg through the Harrisburg Area Center for Higher Education. Late afternoon, evening, and Saturday classes are available. Students interested in course offerings should contact the Center Office, 2891 North Second St., Duncan Hall, Harrisburg, Pennsylavnia, telephone CEdar 8-9694.

Summer Study

Elizabethtown College conducts two five-week summer sessions.

Summer sessions are organized for students who for urgent reasons wish to devote their summers to study. In each term a student may enroll for two three-semester-hour courses. It is possible for a student to earn twelve semester hours of credit toward a degree by attending both sessions. In three full summers a student may complete the equivalent of a year's work.

Students interested in course offerings should contact the Director of Summer Sessions, Elizabethtown College, Elizabethtown, Pennsylvania.

Part-Time Campus Courses

Teachers-in-service and others who can qualify for entrance into college may enroll for courses for which there may be a sufficient demand to justify the organization of a class.

Evening classes are organized for persons who find it possible to carry on further preparation during their spare time.

A program of adult education is provided for those who wish to take courses for their practical or cultural value. Courses in any of the areas listed in this catalog will be offered upon demand.

Anyone interested in any of the above plans should write to the Dean of Instruction.

Placement Services for Students and Alumni

Of vital concern to Elizabethtown College, is the placement of its graduates in positions where they can prove most effective to themselves and to their employers. To this end a corps of workers is available for consultation; this corps consists of teachers, department heads, and the placement director who co-ordinates the placement services.

These services are free and are available to underclassmen, seniors, and alumni. Services are available throughout the calendar year. They relate to permanent as well as part-time and summer jobs. They relate to business, industry, the teaching profession and government.

Student Life and Values

The great potential of a student body leads to great expectations on campus and off campus—wherever students may be. These expectations include academic excellence, physical fitness, spiritual growth, and social competence.

The goal of education should be—as a famous educator notes—to acquire the tools and vocabulary of learning, to establish habits of good taste and proper discrimination, and to liberate the mind and spirit from inhibiting prejudices that prevent the full use of the student's capacities. Education should make the student averse to dishonesty, insincerity, and vulgarity.

Both men and women students need to be concerned about values. Men students should respect and promote standards of honesty, sincerity, and good breeding in all interpersonal relationships. Women are in a more strategic position to insist upon high standards of both thought and action. Women should be carriers of values esthetic and spiritual. They should communicate to their children, husbands, and acquaintances the excitement and satisfaction that may be derived from intellectual pursuits. Experience in insisting upon high standards of both thought and action should be greatly enhanced by living on a college campus. Such insistence clears the college image, orients new students, and develops competence in all areas.

Guided by these great expectations, faculty, deans, and counselors need to focus the attention of students on the standards that are necessary to enlightened living, how these standards are formed, and how they are transmitted from older to younger persons. In this process the more mature student may be of great assistance to the younger student.

In spite of the confusion in our present society about how to achieve these goals, Elizabethtown College takes its stand as a Christian institution expecting high standards of its students. The revolution in freedom of expression in our society shall not be used as the rationalization for its existence. Rights and privileges carry with them corresponding responsibilities. Accordingly, the college should help both men and women students to set and maintain satisfactory standards of belief and behavior in areas vital to their future existence. Elizabethtown College recognizes that although the goal of education should be the same for both men and women, the personal interests and long-term goals of men and women students are possibly different. This is in the nature of life and our society and should be a basic consideration in guiding students.

Satisfactory standards of belief and behavior are expressed in the welcoming letter which the President sends to prospective students:

> *". . . you will be choosing a fully accredited, church-owned, coeducational liberal arts institution with a beautiful campus located in a residential town of about 6500 population. Your classes will be taught by dedicated and well-qualified professors. While the academic program of the college is considered most important, you will find a number of extracurricular, social, and athletic offerings. These offerings are not based upon fraternities, sororities or their equivalents, but upon the considerations of the entire student body.*
>
> *"As a part of the Christian orientation of the college, you will, in the process of your program, complete certain basic academic courses in Bible. Students also are required to attend one non-sectarian chapel service per week, wherein outstanding ministers and laymen of various denominations speak.*
>
> *"Those enrolled at Elizabethtown College are expected, at all*

times, to be acceptable representatives of the college. The use of beverage alcohol in any form in any amount at any time or place is not tolerated. Smoking by men is restricted to certain areas. We prefer that women who smoke not apply for admission since restrictions are most severe and confining. Since it is our desire to hold to a minimum all factors which might jeopardize the academic success of the new student, freshmen are not allowed to have automobiles on campus or in Elizabethtown unless parents certify that such are needed for daily commuting between home and campus. Parents who thus certify accept full academic and moral responsibility for the uses of said automobiles. Moral and ethical conduct, as judged by Christian standards, is assumed to be the foundation of all campus relationships.

"We are happy that our graduates are in demand for responsible positions in business, teaching, homemaking, professional and graduate schools, and other areas. It is our purpose to maintain an excellent reputation academically and morally!"

Curricula

Bachelor of Arts

The course in Liberal Arts has for its objective a comprehension of the meaning of life and the development of an appreciation of its beauty. It emphasizes cultural values.

The curriculum is also planned as a prerequisite for later specialization in graduate study. The Liberal Arts degree is generally considered as preparation for librarians, journalists, lawyers, social workers, teachers and others.

Pre-Ministerial

Those who are preparing for the ministry should investigate the entrance requirements of the Seminary in which they plan to secure their professional training. These will probably include the usual college requirements, with emphasis on English, Speech, Greek and Philosophy as well as various phases of Bible study. Such are the demands, however, on the present-day clergyman that there are few subjects in the curriculum that would not contribute to his efficiency and he should seek at least an introductory course in as many fields as possible.

Pre-Legal

On March 15, 1928, the Supreme Court of Pennsylvania approved the recommendation of the State Board of Law Examiners to place Elizabethtown College upon the list of colleges, degrees from which are accepted for registration in lieu of preliminary examination.

The College recommends that the student who plans to enter the legal profession should follow a course leading to the Bachelor of Arts degree in History and Political Science. This will make possible the election of courses in economics, sociology, history, English, speech and other subjects.

It is also possible for graduates with the Bachelor of Science degree, particularly with a major in Business Administration, to meet all the requirements for entrance to law schools. Such students should select their elective courses carefully in order to obtain as broad a background as possible.

Social Work

Students who desire to qualify as professional social workers should complete a four-year college course, and should have in addition at least one year of postgraduate work in an approved school of social work. Preferably, they should take the full two-year course in a school of social work, leading to the master's degree.

Students who wish to prepare for this field of study should follow the program as outlined for the Bachelor of Arts degree with a major in sociology and psychology.

Preparation for Journalism

The College recommends the course leading to the Bachelor of Arts degree with an English major for those who are considering graduate work in the field of journalism and for those who plan to enter the field upon graduation. A broad background of liberal culture, a wide acquaintance with literature in its various forms, a knowledge of the mechanics of language, fundamental work in journalism and an extensive experience in writing provide a sound preparation for journalistic and literary endeavor. The student should make a careful choice of electives and should take advantage of opportunities for practical experience offered by the college publications.

Bachelor of Science

Biological and Physical Science and Mathematics

These courses permit opportunities for specialization in the fields of biology, chemistry, physics, and mathematics. They are designed for students who plan to enter graduate school, who wish to prepare to teach in the fields of science and mathematics, or who are looking forward to entrance upon the study of medicine, dentistry, pharmacy, engineering, or other scientific pursuits. The curricula are planned so that a student may obtain undergraduate training necessary for graduate work in biology, chemistry, physics, and mathematics.

Students who expect to take up graduate work in science should consult the department head of the field in which they expect to do their graduate work to determine what courses are required as the necessary undergraduate preparation.

Business

The Department of Business offers the following fields:

Business Administration
Accounting
Business Education—Teaching

The purpose of the curricula in Business is to provide students with basic methods of analysis and intellectual understanding so that they can clearly express a problem, formulate a plan of solution, and then verify the result to the end that society will benefit. Therefore stress is placed on the fundamental methodology of accounting, economics, finance, mathematics and human relations. All students of Business who receive a basic core of professional courses in business administration should be able to succeed in their chosen field. No student, however, is permitted to devote himself exclusively to business subjects, but must become acquainted with the cultural, scientific and humanitarian aspects of the world. Hence a balanced course is planned.

The curriculum in business administration gives training in the fundamentals of business that will enable the student to obtain an intelligent understanding of the principles of business. It provides for an analysis of business and industrial facts, and for training in the ability to think through problems with which he will be confronted in later life.

A student planning to enter the managerial phase of business will include in his program courses in business law, marketing, accounting, management economics, and business statistics.

A student planning to major in accounting will begin this subject in his freshman year and continue it in its various phases through his senior year. The indispensable courses in corporation finance, in money and banking, and in business law are begun in the junior year. Thus, by following the program as outlined the student will obtain adequate training in accounting, without sacrificing general training.

A discussion of Business Education is to be found under Suggested Programs for students enrolling for the B.S. in Education.

The Healing Arts

The field of healing arts includes medicine, dentistry, osteopathy, veterinary medicine, nursing and laboratory technology.

In view of the fact that leading schools of medicine, dentistry, and osteopathy have many more applicants for admission than they can accommodate, it is evident that no student should plan to enter with only the minimum requirements. It is strongly urged that all students who contemplate entering any of these fields take the full four years of the course in pre-medical sciences

as outlined in the biology and chemistry curriculums. It is rare that the College recommends anyone who does not meet the requirements for a degree.

Medical Technology

Students preparing for this vocation need to complete a minimum of 90 semester hours in college and pursue a twelve to eighteen month study in an approved hospital.

A student who completes the three year curriculum outlined for the field of medical technology will be granted a B.S. degree upon the completion of the training program as outlined by an approved hospital and upon meeting the certifying requirements of the Board of Registry of Medical Technologists.

The curriculum preparing students for medical technology in co-operation with accredited hospitals has been approved by the Board of Registry of Medical Technologists, American Society of Clinical Pathologists.

Nursing

In order to help meet the need for professional nurses trained beyond the minimum requirements, Elizabethtown College offers the degree, Bachelor of Science in Nursing. Students in this program will complete two years of work at Elizabethtown College. Upon the completion of a three-year nursing course in an accredited school of nursing and the passing of a state board examination for the R.N. degree, students may apply for the B.S. degree as indicated. Although individuals contemplating this five-year program are encouraged to complete their college work before entering a school of nursing, graduate nurses will receive full consideration for admission to college upon satisfying admission requirements.

Pre-engineering

Elizabethtown College offers a co-operative program in engineering whereby a student may achieve a degree in liberal arts from Elizabethtown College and also an engineering degree from The Pennsylvania State University.

The three-two year plan is designed to give the engineering student three years of undergraduate work in engineering at Elizabethtown College to be followed by two years at the co-operating institution. Upon the successful completion of the five-year program, the student will receive the two above-named degrees.

Curriculums which Elizabethtown students will be qualified to enter at Penn State include aeronautical, civil, electrical, industrial, mechanical and sanitary engineering.

In order to be eligible for admission into the Pennsylvania State University, the student must be recommended by Elizabethtown College. The student will have the help of an adviser so that he may be properly guided toward the achievement of his goal.

Pre-engineering students interested in admission to universities other than The Pennsylvania State University should confer with the Director of Engineering Programs in order to make proper arrangements with the school of their choice.

Bachelor of Science in Education

Teaching

Elizabethtown College is approved by the Department of Public Instruction of the Commonwealth of Pennsylvania for the preparation of teachers in the following fields:

Business Education	Secondary Education
Elementary Education	Music Education

Provisional College Certificates
Elementary School Teachers

The provisional college certificate is issued to an applicant who has completed an approved four-year teacher educational curriculum in the elementary field and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania. The course must include Introduction to Education, Educational Psychology, Elementary School Art, Elementary School Music, Health and Hygiene, plus additional courses to make a total of thirty hours in professional education.

The Bachelor of Science in Elementary Education degree meets all the stated requirements. A student, by careful planning, may also meet the requirements in the Bachelor of Arts degree program.

Elementary teacher certification requirements of other states may also be met at Elizabethtown College.

Secondary School Teachers of Academic Subjects

The provisional college certificate is issued to an applicant who has completed an approved four-year teacher education curriculum and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania.

This certificate is based on the completion of eighteen or more semester hours of approved professional courses as follows: Introduction to Education, Educational Psychology, Student Teaching, and electives to be chosen from courses definitely related to teaching in the secondary schools. The Bachelor of Science in Secondary Education degree meets all these requirements. A student may also meet these requirements in various other B.S. degrees, and the degree, Bachelor of Arts.

In consultation with his adviser the student should familiarize himself with the specific subject matter requirements for the field in which he wishes to teach.

Music Teachers

The provisional college certificate is issued to an applicant who has completed an approved four-year music education curriculum and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania.

Students desiring to meet certification requirements for teaching music in the public schools of Pennsylvania will find a program at Elizabethtown College geared to qualify them to teach either vocal or instrumental music at both the elementary and secondary levels.

Preparation of Business Education Teachers

Elizabethtown College is approved by Pennsylvania for the preparation of teachers of business education, and offers a wide program of courses in that field.

Departmental Offerings

Number Code and Identification of Terms

COURSES ARE IN MOST CASES NUMBERED ACCORDING TO THE FOLLOWING PATTERN:

Numbers 100 to 199	for freshman courses
Numbers 200 to 299	for sophomore courses
Numbers 300 to 399	for junior courses
Numbers 400 to 499	for senior courses

Number 499 is used for seminar courses in all departments.

Fall semester courses end with odd numbers.

Spring semester courses end with even numbers.

Courses offered regularly in both semesters are identified with the middle number "5."

Courses offered only in Summer Session and Extension School end with "0."

With the exception of Bi 101, En 201, Geog 101, and Hi 101, courses ending with numbers "01" are prerequisite to courses ending with numbers "02."

TERMS USED FOLLOWING COURSE DESCRIPTIONS ARE INTERPRETED AS FOLLOWS:

"hours" represents clock hours per week of recitation

"hours r" and "hours l" indicate clock hours per week of recitation and of laboratory respectively

"credits" represents semester hours credit for the course—for one semester in the case of single semester courses, and for both semesters in the case of two semester courses.

The eight-hour science requisite in all curricula, except those in which a specific course is designated, implies the inclusion of a minimum of two semesters of laboratory experience.

Social Studies includes courses listed under history and political science, geography, psychology, sociology, and economics.

A. C. Baugher Student Center

Department of Bible and Philosophy

Professor Byerly, Chairman of the Department
Associate Professor Zeigler
Assistant Professors: A. Snowden, G. Snowden, V. Fisher
Instructor: Sutphin

The faculty personnel of the Bible and Philosophy Department of Elizabethtown College considers the major purpose of the department to be that of confronting students with the Word of God as revealed in the written record of the Holy Bible under the guidance of the Holy Spirit. The Bible is accepted as a record of sacred history and understanding of God, and as written by holy men of old, inspired by God. In the program of instruction, each student is called to study the Scriptures seriously, to seek a greater historical and theological depth of biblical understanding.

Departmental biblical studies are conducted in a reverent spirit and in the light of basic contemporary biblical scholarship which considers the significant contributions of archeology, linguistic and historical research. The department allows and encourages freedom of conscience in biblical interpretation. Instructional emphasis assumes a position of interpretation consistent with our Reformation-Anabaptist-Pietistic heritage within the Christian Church. Opportunities for questions and discussion in class as well as in personal conferences are always available to the student.

The department offers other Bible-related courses which include Church History, Christian Education, Psychology of Religion, Christian Ethics and

Philosophy. These courses are taught from the vantage point of biblical faith and insight. The Bible Department teaches as one department within a Christian liberal arts curriculum whose comprehensive goal is the pursuit of truth and attitudes which are consistent with our Christian faith.

Major Requirements: A minimum of thirty-two (32) semester hours, including the required courses—Bible 101-2, Christian Education 203, Religion 203 or 204 or 304, Philosophy 351, 352, 499 and Bible 301-2.

Bible and Philosophy Majors are required to complete twelve (12) hours in one of the following disciplines: Sociology, Psychology, or Economics.

Suggested Program—B.A. in Bible and Philosophy

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Physical Education	1	1
General Psychology 101-2	2	2
Foreign Language	3	3
Sociology 151	3	–
Music 211 or Hu. 151	–	2

Sophomore Year	1st Sem.	2nd Sem.
English 201-2	3	3
or		
English 207-8		
Physical Education	1	1
Christian Education 203	3	–
Religion 203 or 204 or 304	–	2
Foreign Language	3	3
Science	4	4
European History	3	3

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
Philosophy 351	3	–
Philosophy 352	–	3
Bible 301-2	3	3
History and/or		
Political Science	3	3
English 205-6	2	2
Social Science	3	3
Department Electives	–	3

Senior Year	1st Sem.	2nd Sem.
Philosophy 499	2	–
Social Science	3	3
Department Electives	3	3
General Electives	7	8
Recommended Electives: Mathematics 151 and 174; Philosophy 411, other electives not previously taken.		

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

A. Bible

Bi 101-102 Survey of Biblical History—A foundation course for subsequent study in Bible and Philosophy acquainting the student with the Bible as a whole. 2 hours—4 credits.

Bi 251 Old Testament Literature—A brief study of the various literary types in the Old Testament books followed by selections from the three main literary types: The Psalms, Wisdom Literature, and Prophetic Literature. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Bi 301-302 New Testament Greek—An introductory course in New Testament Greek for students interested in a thorough study of the Bible. *Prerequisite Bi 101-102.* 3 hours—6 credits.

Bi 401-402 Advanced New Testament Greek*—Extensive reading and exegesis in New Testament Greek from various New Testament books. Advanced grammar will be a part of the course. *Prerequisite Bi 101-102; Bi 301-302.* 2 hours—4 credits.

Bi 312 New Testament Thought—An advanced course in Biblical studies with special attention to the thought patterns and theological insights found within the New Testament Literature; a consideration of the General Epistles, Hebrews and Revelation in relation to the Gospel records and the Pauline correspondence. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Bi 351 The Teachings of Jesus—A study of the teachings of Jesus in context with applications to life; a brief survey of the era in which Christ lived. *Prerequisite Bi 101-102.* 2 hours—2 credits.

B. Religion

Rel 203 Psychology of Religion—A study of the origin and growth of religion in the life of the individual, including prayer, conversion, worship and other religious experiences. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Rel 204 Philosophy of Religion—A systematic study of man's primary religious beliefs from the viewpoint of selected philosophical and theological perspectives. *Prerequisite Bi 101-102.* 2 hours—2 credits. Offered Second Semester 1964–65.

Rel 304 Comparative Religions—An introduction to the major religions of the world, the origin, characteristics, and contributions to world culture taught against the background of Christianity. *Prerequisite Bi 101-102.* 2 hours—2 credits. Offered Second Semester 1963–64.

Rel 303 Sociology of Religion—An analysis of the role and functions of religion and religious institutions in society. Religion will be seen as both a cultural and a social system. *Prerequisites Bi 101-102; Soc 151.* 2 hours—2 credits. Offered First Semester 1963–64.

Rel 312 History of the Christian Church—A survey course beginning with the First Century Church and ending with a study of current trends and movements in Christianity; a study of the development of Christian thought as well as of historical incidents. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Rel 411 The Christian Faith*—An introduction to the basic doctrines of the Christian Religion; a study of the central doctrines of the Bible including God, man, sin, Christ, and the Church. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Rel 499 Seminar in Religion*—An intensive study of a special area of inquiry within the field of Religion. *Prerequisite 10 semester hours in Bible and Philosophy.* 2 hours—2 credits—by appointment.

C. Christian Education

CE 203 Principles and Administration of Christian Education—A study of the fundamentals of religious education as applied to problems in the home, methods of work in the Church, the school, the Sunday School, and other community efforts for the Christian education of both children and adults. *Prerequisite Bi 101-102.* 3 hours—3 credits.

CE 312 History and Program of the Church of the Brethren—A course designed to give the student an understanding of the historical background of the Church of the Brethren and a view of its present program *Prerequisite Bi 101-102.* 3 hours—3 credits. Offered second semester 1964–65

D. Philosophy

Ph 351 Ethics—An introduction to the historical types of Christian and Western philosophical ethics relating the material to the contemporary situation. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Ph 352 History of Philosophy—An introduction to the different types of Western philosophical thought with focus upon six representative philosophers. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Ph 411 Logic*—A study of the deductive and inductive methods of logic, both classical and contemporary. *Prerequisite Bi 101-102.* 3 hours—3 credits. Offered First Semester 1963–64.

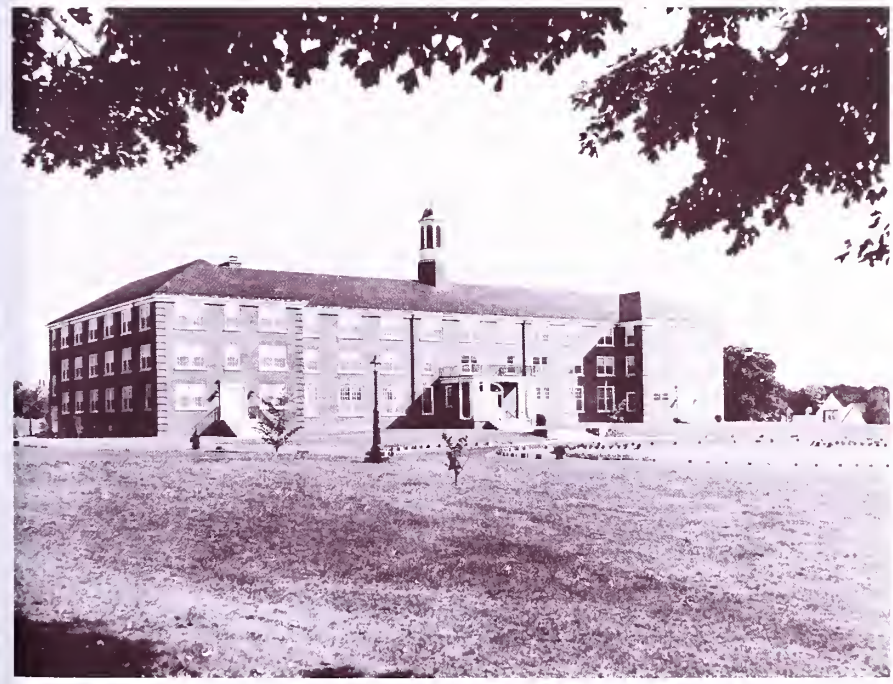
Ph 412 Aesthetics*—An introduction to the various theories of aesthetics through readings in primary source material. *Prerequisite Bi 101-102.* 3 hours—3 credits. Offered First Semester 1964–65.

Ph 414 American Philosophy*—A general survey of American philosophical thought with an emphasis on Pierce, James, Royce, Santayana, Dewey and Whitehead. *Prerequisite Bi 101-102; Ph 352.* 2 hours—2 credits. Offered Second Semester 1963–64.

Ph 416—Philosophical Ethics*—A study of the main types of philosophical ethics in the Western world. *Prerequisite Bi 101-102.* 3 hours—3 credits. Offered Second Semester 1964–65.

* All 400 courses should have the consent of the professor.

Myer Hall—Residence for Women



Department of Biology

Professor C. S. Apgar, Chairman of the Department
Professor B. D. Apgar
Associate Professor Pepper
Assistant Professor Rao

The Biology Department presents a program designed particularly for students interested in graduate study and research in the biological sciences and related fields, as well as in preparation for advanced training in specific professions. In addition, it provides the necessary training and course requirements for students desiring to teach biology and the related sciences in the secondary schools.

Major Requirements: A minimum of eighteen (18) semester hours in Biology beyond Bio 101-2.

Suggested Programs—B.S. in Biology

A. Pre-Medical and Graduate School Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Biology 101-2	4	4
English 101-2*	3	3
Physical Education	1	1
General Psychology 101-2	2	2
Mathematics 101	4	–
Mathematics 164	–	4

Sophomore Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3	3 or 4
English 201-2 or 205-6 or 207-8	2 or 3	2 or 3
Mathematics 201-2	4	4
Foreign Language	3	3
Chemistry 201-2	4	4
Chemistry 203-4	1	1

Junior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Chemistry 301	5	–
Foreign Language	3	3
Social Studies	–	3
Physical Education	1	1
Bible 101-2	2	2
General Electives	3	4*

* Suggested Elective: Chemistry 322

Senior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Philosophy 351 or 352	3	–
General Physics 201-2	4	4
Social Studies	3	3

B. Biology Education Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Biology 101-2	4	4
English 101-2*	3	3
Math. 151-53 or 153-54	3	3
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Bible 101-2	2	2
Gen. Psychology 101-2	2	2
English 201-2 or 207-8	3	3
Education 154	3	–
Physical Education	1	1
Sociology 151	–	3
Mathematics* or French Language	3	3

* Ma 154 must be completed by the end of the Sophomore year.

Junior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Education 203	3	
Education 204	–	3
Education 332	–	3
General Physics 201-2	4	4
History 303	3	
Electives in Liberal Arts	4	

Senior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	–	8
Education 403-4	3	3
Education 451	8	
Education 499	2	

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Bio 101-102 General Biology—A study of the science of life, its concepts and principles, through consideration of the structure, function, and life histories of representative animals and plants. 3 hours *r*, 2 hours *l*—8 credits.

Bio 201 Comparative Anatomy of Vertebrates—A detailed comparative study of the morphology of vertebrate organ systems in representative species. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

Bio 202 Mammalian Anatomy—Comprehensive anatomy of the domestic cat. *Prerequisite Bio 101-102.* 1 hour *r*, 4 hours *l*—3 credits.

Bio 203 Plant Biology—Basic studies in the field of Botany as a foundation for advanced study. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

Bio 205 Microbiology—An introduction to the general principles and techniques of the study of microorganisms. *Prerequisite Bio 101-102 and Ch 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

Bio 207 Taxonomic Ecology of Plants—Introduction to the study of the identification of flowering plants of the local area with particular emphasis on their distribution. *Prerequiste Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

Bio 256 Histological Technique—Basic training in the preparation of plant and animal tissue for study under the microscope. *Prerequisite Bio 101-102 and Ch 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

Bio 304 Embryology—A study of the comparative vertebrate development from the fertilized egg to the formation of the principal organs of the body. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

Bio 305 General Physiology—Basic elements that make the machinery of the body function; shows the purpose of anatomy. *Prerequisite Bio 201.* 2 hours *r*, 2 hours *l*—3 credits.

Bio 306 Histology—The study of cells as organized into the tissues and organs of representative vertebrates. *Prerequisite Bio 304 and 305.* 1 hour *r*, 4 hours *l*—3 credits.

Bio 307 Genetics—An introduction to the study of the principles of heredity. *Prerequisite Bio 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Bio 412 Techniques in Biology—Methods in preparing demonstrations, collecting and preserving materials, and related techniques. Offered for prospective teachers and graduate students. *Prerequisite a minimum of 16 semester hours in Biology and permission of the instructor.* 2 hours or credits variable.

Bio 414 Cellular Plant Physiology—A chemical and physical approach to the understanding of cell mechanisms. Much *independent* work is expected of the student. Topics vary from year to year. *Prerequisites Bio 305 and Ch 201-2.* 1 hour *r*, 4 hours *l*—3 credits.

Bio 499 Special Problems in Biology—Designed to acquaint the advanced student with the problems involved in individual work in Biology. *Prerequisite a minimum of 16 semester hours in Biology and permission of the instructor.* By appointment—Credits variable.

Department of Business

Associate Professor Bitting, Chairman of Department
Assistant Professors: Eastlack, Shen
Instructors: Copeland, Hise
Lecturers: Brown, Gingrich, Jones, Kish

The Department of Business seeks to prepare students for positions of responsibility in the economic and business worlds and in government. It also provides a sound education in economics and business subjects for those students who plan to teach, enter the legal or accounting professions, or further their education through graduate study.

The Department offers courses leading to three degrees—Bachelor of Science in Accounting, Bachelor of Science in Business Administration, and Bachelor of Science in Education with a major in Business Education.

Major Requirements:

A. *Accounting:* Ac 101-2, Ma 162 or 168, Ac 201-2, BA 201-2, BA 214, Ac 301-2, BA 323-24, BA 331-32, BA 343-44, Ac 401-2, Ac 403-4, BA 424, BA 431-32, BA 465.

B. *Business Administration:* Ac 101-2, Ma 162 or 168, Ac 201, 202, 211, 212, or 301 (6 hrs.), BA 201-2, BA 214, BA 323-24, BA 331-32, BA 343-44, BA 465 or 467.

C. *Business Education:* Ac 101-2, Ma 162 or 168, BA 201-2, BA 331-32, BEd 314, BEd 335, shorthand and typewriting preferred electives.

Suggested Program—B.S. in Accounting

Freshman Year	1st Sem.	2nd Sem.
Accounting 101-2	3	3
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	2	2
Mathematics 151 or 153	3	–
Mathematics 162 or 168	–	3
Gen. Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem
Accounting 201-2	3	3
Business Adm. 201-2	3	3
Business Adm. 214	–	3
English 201-2 or 207-8	3	3
Sociology 151	3	–
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Accounting 301-2	3	3
Business Adm. 323	3	–
Business Adm. 324	–	3
Business Adm. 332-32	3	3
Business Adm. 343-44	3	3
History	3	3
Electives	–	2

Senior Year	1st Sem.	2nd Sem
Accounting 401	3	3
Accounting 403	3	–
Accounting 404	–	3
Business Adm. 424	–	2
Business Adm. 431-32	1	1
Business Adm. 465	3	–
Philosophy 351**	–	3
Political Science 352**	3	–
Electives	2	3

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** May be taken either semester.

Suggested Program—B.S. in Business Administration

Freshman Year	1st Sem.	2nd Sem.
Accounting 101-2	3	3
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	2	2
Mathematics 151 or 153	3	–
Mathematics 162 or 168	–	3
Gen. Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem
Accounting	3	3
Business Adm. 201-2	3	3
Business Adm. 214	–	3
English 201-2 or 207-8	3	3
Sociology 151	3	–
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Business Adm. 323	3	–
Business Adm. 324	–	3
Business Adm. 331-32	3	3
Business Adm. 343-44	3	3
History	3	3
Electives***	3	5

Senior Year	1st Sem.	2nd Sem
Business Adm. 465 or 467	3	–
Philosophy 351 or 352**	–	3
Political Science**	3	–
Electives***	9	12

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** May be taken either semester.

*** Of the twenty-nine (29) hours of electives, eighteen (18) must be taken in the field of business.

Suggested Program—B.S. in Education (Business Education Major)

Freshman Year	1st Sem.	2nd Sem.
Accounting 101-2	3	3
Bible 101-2	2	2
Education 154	–	3
English 101-2*	3	3
Mathematics 151 or 153	3	–
Mathematics 162 or 168	–	3
Physical Education	1	1
Gen. Psychology 101-2	2	2
Sociology 151	3	–

Sophomore Year	1st Sem.	2nd Sem.
Business 201-2	3	3
English 201-2 or 207-8**	3	3
Adv. Physical Ed.	1	1
Science	4	4
Electives	5	5

Junior Year	1st Sem.	2nd Sem.
Business Adm. 331-32	3	3
Business Education 214	–	2
Education 203	–	3
Education 331	3	–
History 303-4	3	3
Electives	8	6

Senior Year	1st Sem.	2nd Sem.
Business Ed. 335	3	–
Education 302	–	2
Education 441	3	–
Education 451	8	–
Philosophy 351 or 352	–	3
Electives**	–	9

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** Students desiring to elect accounting, shorthand, and typewriting may postpone the literature course until their junior year.

Certification Requirements Effective After October 1, 1963

Business Education may be written on a provisional college certificate upon the completion of thirty-six (36) semester hours including twelve semester hours distributed in at least four (4) of the following subjects: bookkeeping, business law, business organization and management, office practice*, principles of selling, and economics; and upon the completion of the requirements of two or more of the following:

Bookkeeping	12 semester hours
Retail Selling	9 semester hours
Shorthand	9 semester hours
Typewriting	6 semester hours

The interpretation of the above is as follows:

"Business education written on the certificate is valid for teaching business law, general business, and office practice provided two (2) or more of the following are also written on the certificate: bookkeeping, retail selling, shorthand, and/or typewriting."

Regulations:

1. A person certificated in English may teach business English and/or a person certificated in mathematics may teach business mathematics.
2. A person certificated in business education may teach business English upon the completion of fifteen (15) semester hours in English.
3. A person certificated in business education may teach business mathe-

matics upon the completion of fifteen (15) semester hours in accounting and mathematics.

* Required course.

In addition, the Department of Education should be consulted for requirements for secondary certification.

Courses of Instruction

A. Accounting

Ac 101-102 Principles of Accounting—A thorough study of the principles of debit and credit; analysis and the use of journals and ledgers, financial statements, controlling accounts and subsidiary ledgers; voucher system; partnership and corporation accounting; departmental and branch accounting.—2 hours *r*, 2 hours *l*—6 credits.

Ac 201 Cost Accounting—A survey of the elements of costs and their application in job order and process systems; standard cost and direct costing systems, with emphasis on methodology. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 202 Advanced Cost Accounting—A continuation of the theory and practice of cost accounting, with emphasis on managerial utility of data, planning, control and decision making. *Prerequisite Ac 201.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 212 Personal Income Tax Accounting—A survey course in preparation of individual income tax returns; a study of what constitutes income and expense and how to report them on tax forms; tax saving devices for the individual. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 301 Intermediate Accounting—A thorough study of the use, composition and variations of accounting methods in connection with the following accounts: cash, receivables, inventories, fixed assets and valuation accounts; investments, and liabilities; prevailing accounting theories in determining net income; the use of fund statements. *Prerequisite Ac 101-102.* 3 hours—3 credits.

Ac 302 Advanced Accounting—A detailed study of accounting for partnerships and corporation; comparative statements, analysis of working capital, insurance, installment sales; an introduction to accounting for consolidations. *Prerequisite Ac 301.* 3 credits.

Ac 401-402. Auditing—An extensive analysis of the responsibilities and work of an auditor, the purpose and kinds of audits, preparatory analysis and considerations, systems of internal check, consolidated statements, auditors' reports, investigations, and auditors' certificates; an audit case problem. *Prerequisite Ac 301-302.* 3 hours—6 credits.

Ac 403 Tax Accounting—A study of the important provisions of the Federal Tax law pertaining to individuals, partnerships and corporations, using illustrative examples, selected questions and problems, and the preparation of returns. *Prerequisite Ac 301-302.* 3 hours—3 credits.

Ac 404 C.P.A. Problems—A course designed especially for students of advanced accounting who are planning to take state examination for qualifications as Certified Public Accountants. *Prerequisite Ac 301-302.* 3 hours—3 credits.

B. Business Administration

BA 201-202 Principles of Economics—A beginning course in the principles and problems of economics; production, monopoly, public finance, national income, money, banking, business cycles, value, price, supply and demand, wages, rent, interest, and profits. 3 hours—6 credits.

BA 214 Principles of Marketing—An investigation of the strategies employed in marketing different classes of products; a description of the service provided by the various middle-men; an analysis of the basic marketing function—buying, selling, transportation, storage, financing, risk-taking, market information, standardization; the government's role in marketing; marketing cost and efficiency. 3 hours—3 credits.

BA 301-302 Intermediate Economic Theory—An extensive study devoted to the structure of markets, pricing of goods, pricing of the factors of production and general equilibrium theory. During the second semester macroeconomics will be emphasized including national income accounting, monetary and fiscal stabilization policies, a comparison of the Classical and Keynesian policy recommendations. *Prerequisite BA 201-202 and permission of the instructor.* 3 hours—6 credits.

BA 305 Comparative Economic Systems—Examination, criticism and appraisal of alternative economic systems; capitalism, socialism, communism, and mixed economic systems. *Prerequisite BA 201-202.* 2 hours—2 credits.

BA 306 Development of Economic Doctrine—Economic science as it developed from the classical tradition of Smith, Ricardo, and Malthus to the modern economics of Keynes and Schumpeter. *Prerequisite BA 201-202.* 2 hours—2 credits.

BA 315 Principles of Advertising—An analysis of the steps undertaken in preparing specific advertisements, appraisal of the various media available to the advertiser, investigation of methods used in testing the effectiveness of advertising, procedures used in preparing the complete advertising campaign. *Prerequisite BA 214.* 3 hours—3 credits.

BA 316 Principles of Salesmanship—The principles of personal salesmanship including preparation for and obtaining the interview, constructing and presenting the sales talk; steps in making and closing sales; prospecting; sales techniques. *Prerequisite BA 214.* 3 hours—3 credits.

BA 317 Principles of Retailing—Buying and selling activities; merchandise budgeting and inventory control; store location, appearance and layout; training and supervision of employees; credit policies; pricing policies; use of gross margin, expense and profit figures as guides to decision making. *Prerequisite BA 214.* 3 hours—3 credits.

BA 323 Money and Banking—A study of the monetary system and the credit and banking system of the United States; emphasis on the Federal Reserve System, government fiscal policy, debt management, credit control and other monetary problems. 3 hours—3 credits.

BA 324 Corporation Finance—An analysis of the nature and development of the corporate forms of business enterprise; the characteristics of the various types of securities, the part played by each type in the capital structure of the corporation, and the manner of issuance and sale; the management of corporate funds. 3 hours—3 credits.

BA 331-332 Business Law—A study of the law of business and its administration; the general principles of the law of contract, of agency, employer and

employee, negotiable instruments, suretyship, and insurance; second semester—bailments, carriers, sales, partnership, corporations, property, deeds of conveyance, mortgages, torts, and business crimes. 3 hours—6 credits.

BA 343-344 BUSINESS STATISTICS—The course is primarily designed to develop basic statistical reasoning through the use of conventional statistical methods plus some simple modern statistical techniques in business and economic research. Topics included are as follows: Nature of statistics, tabular presentation of statistical data, frequency distribution, measurement of central tendency, dispersion and skewness, index numbers, design of samples, statistical inference, times series, correlation analysis, binomial distribution, and simple probability theory. 3 hours—6 credits.

BA 403 INTERNATIONAL ECONOMICS—An introduction to the theory of international trade, finance and commercial policies. The following topics will be examined: theory of comparative cost advantage; international mobility of production factors; structure and transfer of international balance of payments; basic theory of foreign exchange and exchange control; nature, system and effects of tariffs and quotas. 2 hours—2 credits.

BA 404 ECONOMIC PROBLEMS—An application of economic principles to such problems as inflation and deflation, full employment, economic stagnation, credit control, monopolies, and controlled economies. *Prerequisite BA 201-202.* 3 hours—3 credits.

BA 405 ECONOMIC GEOGRAPHY—A study of society's allocation of natural resources to various areas; the problem of underdeveloped nations today; land forms, minerals and agriculture; economic aspects of major industries of the world. 3 hours—3 credits.

BA 414 PRINCIPLES OF TRANSPORTATION—An examination of the vital role of transportation in economic development; place and time utility; rail, air, water, and highway carriers' operation in the United States; rate-making, competition and government regulation. 3 hours—3 credits.

BA 415 PRINCIPLES OF MARKETING RESEARCH—The use of the scientific method in solving marketing problems; steps in planning effective surveys; preparation of questionnaires, collection, tabulation, analysis and interpretation of data; writing meaningful reports; statistical sampling; proper use of internal records and secondary sources of information. *Prerequisite BA 214.* 3 hours—3 credits.

BA 424 STATEMENT ANALYSIS—An advanced course unifying some of the work of corporation finance and advanced accounting with emphasis on the practical problems of the analysis of financial statements. *Prerequisite AC 301-302, BA 323-324.* 2 hours—2 credits.

BA 431-432 ADVANCED BUSINESS LAW—Emphasis upon the principles of law as they apply to accounting; case studies and typical C. P. A. law problems included. *Prerequisite BA 331-332.* 1 hour—2 credits.

BA 465 PRINCIPLES OF MANAGEMENT—Application of scientific principles of business organization and management in a modern industrialized economy; planning, organizing, coordinating, directing, and controlling functions. Also outside readings and cases. 3 hours—3 credits.

BA 467 PERSONNEL MANAGEMENT—An investigation of techniques undertaken by industry to most effectively utilize its labor force: selection procedures, training of employees, communication, merit rating, determining job requirements, handling grievances, employee morale, transfer and promotion. 3 hours—3 credits.

BA 468 Industrial and Labor Relations—An evaluation of the historical development of the union movement and the collective bargaining process; union-management relationships, procedures for the alleviation of tension, alternatives to force, the role of government participation and control in the realization of industrial peace. 3 hours—3 credits.

BA 497—Business Research Thesis—An opportunity for seniors in independent study and research on a problem or topic in the field of business. (Copies of the thesis must be acceptable for inclusion in the College library.) By appointment. 3 credits.

BA 499 Seminar in Marketing—A course designed to integrate previously taken marketing offerings by stressing the managerial function. Techniques used are case studies, readings, projects and simulated marketing decision devices. *Prerequisite permission of instructor.* 3 hours—3 credits.

C. Business Education

BEd 101-102 Elementary Gregg Shorthand—An intensive study of Gregg Shorthand Simplified; emphasis upon theory, application, phrasing, dictation of connected matter, reading from shorthand plates, vocabulary building, and the dictation and transcription of new material at varying rates of speed. 3 hours —6 credits.

BEd 111-112 Elementary Typewriting—Training in fundamental typewriting technique; machine operation, keyboard technique, word drills, letter forms, tabulations, manuscript set-up, preparation of business and legal papers, speed and accuracy building. 2 hours *r*, 2 hours *l*—4 credits.

BEd 201-202 Advanced Gregg Shorthand—A thorough review of shorthand theory; dictation and transcription covering a wide range of businesses for the development of the vocabulary, speed, and accuracy demanded in business and professional offices; emphasis on shorthand penmanship, vocabulary, and advanced phrase building. *Prerequisites BEd 101-102 or permission of instructor.* 3 hours—6 credits.

BEd 211 Advanced Typewriting—Development of job production techniques, especially for skill in rapid production of commercially acceptable and mailable copy. *Prerequisite BEd 111-112 or permission of the instructor.* 3 hours—2 credits.

BEd 213 Office Machine Practice—Instruction and practice in the use of modern office machines—adding listing machines, calculating machines, comptometers, stencil and liquid duplicators. 3 hours—2 credits.

BEd 314 Office Practice—Instruction in secretarial duties common to all fields of business; special attention to filing, handling of mail, editing and proofreading, duties of the receptionist, business ethics, and the use of reference books; research assignments, job sheets, and laboratory exercises included. 3 hours—2 credits.

BEd 316 Business Correspondence—A study in effective communication of ideas and information in the modern business world; the letter, the report, the advertisement, inquiry forms such as the interview and the questionnaire. 3 hours—3 credits.

BEd 335 Methods and Principles of Business Education—A thorough consideration of the methods of teaching business subjects on the high school level—particularly bookkeeping, shorthand, typewriting, and related subjects; curriculum materials, their selection and adaptation; tests and measurements in commercial education. 3 hours—3 credits.

Department of Chemistry

Professor Stambaugh, Chairman of Department
Professor Berkebile
Assistant Professors: Proctor, Ranck
Instructors: Hedrick, Hertzog

The basic courses offered in this department are designed to cultivate a scientific spirit and habit. The more advanced courses are designed to prepare the student for further work in industry, graduate school, or medicine. A sequence of courses is designed for students who want to teach chemistry on a secondary level.

For the professional chemist, the best possible background in mathematics, physics, and German is desired. For those engaged in medicine, an extensive background in biology is desired. The studies in communication skills and the humanities, which round out a liberal arts education, make for a very full curriculum for those majoring in this department.

Major Requirements: The following curricula constitute a minimum major and will be approved when the electives are taken to complete one of the following:

A. *Industry or Graduate School*—This option must include Ch 302, Ch 421, and four (4) additional hours of chemistry electives.
B. *Pre-Medical*—The pre-medical option must include Bio 101-2, Bio 201-2, and Bio 306 or approved biology alternates.
C. *Education*—The secondary teaching option must include courses approved by the Education Department for certification by the Pennsylvania Department of Education.

All options must elect the following:

Literature (English or World)	6 hrs.
History (Including Hi 301, 302 or P.S. 352)	6 hrs
Bible	6 hrs.
Physical Education	4 hrs.

All options must elect a total of ten (10) semester hours from the following areas: Economics, Religion (exclusive of required Bible), Psychology, and Sociology.

Suggested Programs—B.S. in Chemistry

A. Graduate School and Industry Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
English 101-2*	3	3
German 101-2	3	3
Mathematics 101	4	
Mathematics 164	–	4
Bible 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Chemistry 201-2	4	4
Chemistry 203-4	1	1
German 201-2	3	3
Mathematics 201-2	4	4
General Physics 201-2	4	4
General Psychology 101-2	2	2

Junior Year	1st Sem.	2nd Sem.
Chemistry 303-4	4	4
Chemistry 301	5	
Chemistry 302	–	4
English 201-2	3	3
History 303-4	3	3
Physical Education	1	1
Electives	2	3

Senior Year	1st Sem.	2nd Sem.
Chemistry 421	4	
Chemistry 401	3	
Bible or Ethics	3	
Elective in Chemistry	–	4
Chemistry 499	1	1
General Electives	–	6

B. Pre-Medical Curriculum

Freshman Year	1st Sem.	2nd Sem.
Biology 101-2	4	4
Bible 101-2	2	2
Chemistry 101-2	4	4
English 101-2*	3	3
Mathematics 101	4	
Mathematics 164	–	4

Sophomore Year	1st Sem.	2nd Sem.
Chemistry 201-2	4	4
Chemistry 203-4	1	1
German 101-2	3	3
Mathematics 201-2	4	4
General Physics 201-2	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Economics 201	–	3
Chemistry 301	5	–
Chemistry 303-4	4	4
Biology 201	4	
Biology 202	–	4
German 201-2	3	3
Sociology 151	–	3
Physical Education	1	1

Senior Year	1st Sem.	2nd Sem.
General Psychology 101-2	2	2
History 303-4	3	3
Bible or Ethics	2	
General Electives	5	8

C. Chemistry Education Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
English 101-2*	3	3
German 101-2	3	3
Mathematics 101	4	
Mathematics 164	–	4
General Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Bible 101	2	–
Chemistry 201-2	4	4
Chemistry 203-4	1	1
German 201-2	3	3
Mathematics 201-2	4	4
Education 302	–	2
General Physics 201-2	4	4

Junior Year	1st Sem.	2nd Sem.
Bible 102	–	2
Chemistry 301	5	–
Chemistry 303-4	4	4
English 201-2	3	3
History 303-4	3	3
Physical Education	1	1
Education Electives	2	5

Senior Year	1st Sem.	2nd Sem.
Education 451	8	
Philosophy 351	–	3
Education Electives	6	–
General Electives	–	5

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

Ch 101-102 Inorganic Chemistry and Qualitative Analysis—A study of the principles of Inorganic Chemistry, from the viewpoint of atomic and molecular structure, combined with a systematic study of qualitative separation of the common cations and anions. *Prerequisite: High school chemistry, biology or physics, and algebra.* 3 hours *r*, 3 hours *l*—8 credits.

Ch 111-112 Elementary College Chemistry—A terminal course in the Elementary Principles of Chemistry. 3 hours *r*, 2 hours *l*—8 credits.

Ch 201-202 Organic Chemistry—A study of the compounds carbon, aliphatic and aromatic; their properties, synthesis, structures, uses and mechanism of their reactions. *Prerequisite Ch 101-102.* 3 hours *r*, 3 hours *l*—8 credits.

Ch 203-204 Chemical Calculations—Solving of problems dealing with concentration, equilibria, equivalent weights, slide rule, and logarithms. *Prerequisite Ch 101-102.* 1 hour *r*—2 credits.

Ch 301 Quantitative Analysis—Principles and practices of laboratory determinations by gravimetric, volumetric and colorometric analysis together with the mathematical basis for these procedures. *Prerequisite Ch 203-204.* 3 hours *r*, 5 hours *l*—5 credits.

Ch 302 Advanced Quantitative Analysis—Individual work in analysis from the following fields: ferrous or nonferrous alloys, rock, food, feed, fertilizer, paints, petroleum; commercial samples used. *Prerequisite Ch 301, Ch 303.* 2 hours *r*, 8 hours *l*—4 credits.

Ch 303-304 Physical Chemistry—An expansion and coordination of previous courses as related to the physical states of matter, solutions—homogeneous and heterogeneous, equilibria, thermodynamics, and the interrelationship of these quantities through mathematics; laboratory emphasis on the application of

physical measurements to the solutions of chemical problems. *Prerequisite Ch 202, Ch 203-204, Ma 201-202, and Phy 201-202.* 3 hours *r*, 3 hours *l*—8 credits.

CH 321 RADIOCHEMISTRY—A study of physical and chemical properties of radioactive compounds and some of their applications. *Prerequisite or concurrent Ch 301.* 1 hour *r*, 3 hours *l*—2 credits.

CH 322 BIOCHEMISTRY—A study of the chemical processes involving living matter. *Prerequisite Ch 201-202.* 3 hours *r*, 3 hours *l*—4 credits.

CH 401 ADVANCED INORGANIC CHEMISTRY—A study of complex ions and coordination compounds, bonding theories, oxidation-reduction potentials, and the more common elements. *Prerequisite Ch 301-302.* 3 hours *r*—3 credits.

CH 421 QUALITATIVE ORGANIC ANALYSIS—A study of properties of functional groups of organic compounds, with application of these principles used in the identification of pure organic compounds and of mixtures of organic compounds. *Prerequisite Ch 202, 301.* 2 hours *r*, 8 hours *l*—4 credits.

CH 422 PROBLEMS IN ORGANIC CHEMISTRY—A study of the problems of organic synthesis and organic quantitative analysis. *Prerequisite Ch 202, 301.* 2 hours *r*, 10 hours *l*—4 credits.

CH 499 SPECIAL PROBLEMS IN CHEMISTRY—Designed to acquaint the advanced student with the problems involved in individual work in Chemistry. *Permission of Instructor.* Credits variable.

GEOLOGY

GEOL 104 GEOLOGY—Includes Physical Geology, a study of the evolution of the earth's crust as revealed by the arrangement and content of the rocks, and Historical Geology dealing with the sequence of events of prehistorical times as revealed by a study of fossils. 3 hours *r*, 3 hours *l*—4 credits.

Gibble Science Building

Department of Education

Professor Hoover, Chairman of Department
Assistant Professors: E. Eisenbise, Rice, Graham
Instructor Neff
Lecturer Wenger

The function of the professional education program at Elizabethtown College is to prepare teachers to qualify for elementary and secondary school teaching.

Each applicant who is planning to teach must declare his intention to the Director of Teacher Training during the second semester of the sophomore year and meet the qualifications of the Committee on Teacher Education. The basis of criteria formulated by the Teacher Education Committee is listed below. Applicants who do not meet the requirements are counselled out of the teacher education program and directed into other areas. The criteria are as follows:

1. Approval of major department
2. English proficiency
3. Speech proficiency
4. Good physical, emotional, and mental health record
5. Scholarship: grade point ratio of 2.0 or better
6. Personal qualifications: Approval of the Dean of Men or the Dean of Women

No student will be recommended for state certification if he has any grade below "C" in his teaching major.

Information concerning certification in other states may be obtained from the Department of Education of each state, or from the Director of Teacher Training at Elizabethtown College. Students are responsible for meeting specific requirements.

General Requirements for Teachers

The Commonwealth of Pennsylvania has established the following Pro-ssional Education Requirements for all teachers:

Eighteen semester hours of professional education courses distributed in e following areas:

1. Social foundations of education
2. Educational Psychology and human growth and development
3. Materials and methods of instruction and curriculum (Related to subject matter specialization field or fields)
4. Actual practicum and student teaching (Related to the subject matter specialization field or fields)

With these courses a student in the Liberal Arts or Science curricula will e certified to teach in the area of his concentration if it be Biology, Chemistry, nglish, Foreign Language, History and Political Science, Mathematics, or ɔcial Studies. A Liberal Arts or Science student may be certified to teach in e elementary schools with the eighteen semester hours in professional educa-ɔn listed above in addition to the following courses:

1. A course in the teaching of reading
2. Eighteen (18) to twenty-four (24) semester hours (effective October 1, 1964) selected from a minimum of four of the following areas in Elementary Education: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

Major Professional Requirements:

A. *Elementary Education:* Ed 154, Ed 203, Ed 204, Ed 315-16, Ed 354, d 318, Ed 302, Ed 313-14, Ed 322, Ed 441, Ed 451, Ed 403-4.

B. *Secondary Education:* Ed 154, Ed 203, Ed 204, Ed 331-32, Ed 334, d 302, Ed 441, Ed 403-4, Ed 451, Ed 352.

Electives should be in areas in which a student wishes to be certified. ate requirements are as follows:

	Semester Hours
nglish	36
ɔreign Language	24
istory	24
istory and Government	24
lathematics	24
ology	24
hemistry	24
ıysics	24
ıysics and Mathematics	24

eneral Science—24 semester hours covering 2 or more sciences.
ɔmprehensive Science—40 semester hours, consult advisor.
ɔcial Studies—36 semester hours, consult advisor.

Suggested Programs—Bachelor of Science in Education

A. Elementary Education

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Education 154**	3	–
English 101-2*	3	3
History 101-2	2	2
or		
Geography 103-106	2	3
Mathematics 151	3	–
Physical Education 251	–	2
Gen. Psychology 101-2	2	2
Sociology 151**	–	3

Sophomore Year	1st Sem.	2nd Sem.
Biology 101-2	4	4
Education 203**	3	–
Education 204**	–	3
English 207-8	3	3
History 101-2	2	2
or		
Geography 103-6	2	3
Physical Science 203**	–	3
Education 212**	3	–
Physical Education 252	2	–

Junior Year	1st Sem.	2nd Sem.
Education 315-16	3	3
History 303-4	3	3
Education 354**	–	3
Music 303	3	–
Education 318	–	3
Education 302**	2	–
Education 313-14	3	3
Education 322	3	–
Electives	–	3

Senior Year	1st Sem.	2nd Sem.
Education 441**	3	–
Education 451	8	–
Education 403-4	3	3
Philosophy 351	–	3
Humanities 251	–	2
Electives	–	9

B. Secondary Education

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Education 154**	–	3
English 101-2*	3	3
History 101-2		
or		
Geography 103-4	2	2
Language or Mathematics	3	3
Gen. Psychology 101-2	2	2
Sociology 151**	3	–
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Education 203**	3	–
Education 204**	–	3
English 201-2 or 207-8	3	3
History 303-4	3	3
Science	4	4
Physical Education	1	1
Electives	3	3

Junior Year	1st Sem.	2nd Sem.
Education 331-32	3	3
Education 334	–	3
Education 302**	2	–
Philosophy 351 or 352	3	–
English 321	–	2
Electives	9	9

Senior Year	1st Sem.	2nd Sem.
Education 441**	3	–
Education 403-4	3	3
Education 451***	8	–
Education 352	–	3
Electives	–	8

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** The work of these courses may be taken either semester.

*** Courses taken during eight (8) weeks period.

Education

Ed 154 Introduction to Education—A study of American Schools with consideration of European antecedents and of educational changes in the United States; control and support of education, organization of schools, the teacher, methods of teaching, recent developments in education. 3 hours—3 credits.

Ed 203 Educational Psychology—A fundamental course concerned with the original nature of man, the laws of learning, and individual differences. *Prerequisite Ps 101-102.* 3 hours—3 credits.

Ed 204 Educational Sociology—Sociological facts with particular educational implications with attention to community life and personality contacts and adjustments. *Prerequisite So 151 or Ed 154.* 3 hours—3 credits.

Ed 302 Audio-Visual Education—Designed to present the fundamental principles of visual and sensory aids used in the schoolroom; various types and techniques applied to subject matter. 2 hours *r,* 1 hour *l*—2 credits.

Ed 210 Special Class Methods—Methods of teaching in special education designed to meet the needs of the special education teacher; includes a workshop study of planning and organizing curricular materials of instruction for the primary, the intermediate, and the advanced maturational levels. 3 hours—3 credits.

Ed 313-314 Teaching of Arithmetic and Science—Fundamental psychological principles in teaching and interpreting arithmetic and science in grades 1 through 8; an acquaintance with materials of instruction. 3 hours—6 credits.

Ed 315-316 Teaching of Reading and Language Arts—Methods and practice in teaching reading, grades 1 to 6; the study and practice of methods in teaching oral and written composition, manuscript and cursive writing, phonics and spelling. *Prerequisite En 201-202 or En 207-208.* 3 hours—6 credits.

Ed 318 Teaching of Music in the Elementary School—Acquaints the prospective elementary classroom teacher with methods and materials used in the teaching of music. *Prerequisite Mu 101.* 3 hours—3 credits.

Ed 320-330 Arts and Crafts for Special Classes—Especially organized to meet the needs of teachers of special education; instruction in the development of the child with crafts from the very simple to more advanced methods in woodwork, plastic, cork, weaving, paper, novelties, leather, use of salvage material, household repairs, and clay modeling. 3 hours—6 credits.

Ed 322 Teaching of Public School Art—Designed to prepare the student to teach public school art; includes drawing, the elementary principles of design, lettering, composition, and color harmony and their application to home, school, and community interests. 3 hours—3 credits.

Ed 331-332 Principles and Practices of Secondary Education—Including Reading—A study of the problems of teaching, learning activities, organization of courses of instruction and units, methods of planning and organizing classroom activities, and of evaluating the outcomes on the secondary level; practice in lesson planning and demonstration teaching; includes Reading. 3 hours—6 credits.

Ed 334 Educational Measurements—A consideration of the better known educational tests and an introduction to statistics and their use. 3 hours—3 credits.

Methods and Principles of Business Education (See BEd 336)

ED 342 EDUCATIONAL GUIDANCE—The history, principles, problems, pr cedures, organization, administration, and supervision of educational and voc tional guidance; special attention to the importance of guidance and personn service at various educational levels. 3 hours—3 credits.

ED 344 SAFETY EDUCATION—A study of the history and development safety education, the psychology of accident prevention, driver educatio sports education, industrial safety techniques, and measuring the results safety education. 3 hours—3 credits.

ED 350 SPECIAL CLASS TEACHING—Observation, classroom teaching, a conferences in special education, with supervisors, for a period of one semest *By appointment*—1 credit. Fee $45.00 including tuition.

ED 352 TEACHING OF SOCIAL STUDIES—Designed to acquaint the prospecti teacher of the social studies in elementary and secondary schools with curre methods, literature, and visual aids in the field. 3 hours—3 credits.

ED 354 CHILDREN'S LITERATURE—An interpretative and critical study literature for children, including selected readings, fiction and non-fiction, a a study of illustrators and the history of writing for children. Open to on Juniors and Seniors. 3 hours—3 credits.

ED 360 READING IN THE SECONDARY SCHOOL ACADEMIC SUBJECTS—An ov view of the elementary reading program as a base for developing the unde standings and improving techniques for developing skills applicable to t secondary student. The course is planned to help the teacher provide a d velopmental reading program with respect to the secondary academic subjec 3 hours—3 credits.

ED 370 COMPARATIVE EDUCATION—An analysis and comparison of the ed cational systems of the United States, France, England, Germany, the Sov Union, and other countries in regard to teacher preparation, curriculum, schc administration, and educational purposes. 3 hours—3 credits.

ED 380 PROBLEMS IN EDUCATION—This course deals with problems curriculum, organization, planning and methods studied in relation to the historical, philosophical, psychologist, and sociological background. 3 hours 3 credits.

ED 403-404 HISTORY AND PHILOSOPHY OF EDUCATION—An analysis of t history of education from early Greek times to the present; a study of t nature of knowledge and the theories of great thinkers as to what the fir goals of education should be and how they may be obtained; provides a bac ground from which the student can formulate his philosophy of educatic 3 hours—6 credits.

ED 421 TEACHING SPEECH IN SECONDARY SCHOOLS—A study of the prc lems, methods, and materials in the teaching of speech in secondary scho with a primary emphasis upon classroom procedures; analysis of textboc periodical and pamphlet materials; tests and rating scales; relationships to ex class speech activities. 3 hours—3 credits.

ED 422 SPEECH CORRECTION AND THE CLASSROOM TEACHER—Training the recognition, diagnosis, and treatment of minor speech defects with d cussion of major speech defects; reinforcing and following up the work of t professional speech therapist. 2 hours—2 credits.

ED 441 PROFESSIONAL PRACTICUM INCLUDING SCHOOL LAW—This course designed to prepare students for their practice teaching. Techniques of teachig and lesson planning for the student's special field are considered. Pennsylvan school laws relevant to the work of the classroom teacher are studied. Obser tions are made of various classroom procedures. 6 hours—3 credits.

ED 451 PRACTICE TEACHING—Observation, participation, and practice tea

ing in the public schools; special attention to lesson plans, discipline, classroom technique, and the measuring of results; conferences and discussions. (The student is required to achieve an average grade of C in any field in which he wishes to do practice teaching.) *Prerequisite Ed 315-316 and 441 for elementary teachers, Ed 338 and 441 for secondary teachers.* 8 hours (or equivalent)—6–8 credits. (The student teacher is required to provide for his own transportation.) Fee, $60.00.

Ed 499 Senior Seminar in Education—Designed to acquaint seniors who wish to do graduate work with methods of research in Education. Advanced students are given an opportunity to apply the principles of research in a research project. *Prerequisite—Ed 441 and permission of the instructor.*

Special Education

Ed 210 Special Class Methods—This course is concerned with the theory and application of instruction of the mentally retarded. Critical examination of the diagnosis and classification of mental retardation provide the basis for the intensive study of differential aims, organizations, curriculums, and techniques related to teaching the special classes. 3 hours—3 credits.

Ps 310-320 Psychology of Exceptional Children—An overall consideration of children who deviate from the generally accepted patterns of expected developments, with special attention to problems of mentally superior, mentally retarded, and physically handicapped children. *Prerequisite Ps 101-102.* 3 hours—6 credits.

Ed 320-330 Arts and Crafts for Special Classes—Especially organized to meet the needs of teachers of special education; instruction in the development of the child with crafts from the very simple to more advanced methods in woodwork, plastic, cork, weaving, paper, novelties, leather, use of salvage material, household repairs, and clay modeling. 3 hours—6 credits.

Ed 350 Special Class Teaching—Observation, classroom teaching, and conferences in special education with supervisors, for a period of one semester. *By appointment*—1 credit. Fee $45.00 including tuition.

Geography

Geog 103-104 World Geography—A study of the physical factors in man's environment and his adjustment to them; the world's landform features and mineral resources, climates, soils, and vegetation types and the political, economic, and social responses of man to them. 2 hours—4 credits.

Geog 106 Geography of United States and Pennsylvania—A study of the geography of the United States including physiography, climate, soil, natural vegetation, cultural, economic and political patterns, special attention to the geography of Pennsylvania. 3 hours—3 credits.

Physical Science

PhySc Physical Science—An introduction to the scientific view of the physical world; topics in astronomy, meteorology, and geology during the first semester and in chemistry and physics during the second. 3 hours—3 or 6 credits.

Orientation

Or 100 Orientation—The orientation course is designed to help the student make the rather difficult transition from high school to college, to help him find meanings in college and life, and to start him on the road that will lead to a satisfactory system of values. It is a course in which the basic topics relevant to the beginning of college life and work are discussed. Among the subjects are: use of the library; methods of study; approved social usages; college rules and requirements. No credit.

Department of English

Professor Bomberger, Chairman of Department
Professor Schlosser
Associate Professor M. Enterline
Assistant Professors: Campbell, Dwyer, Libhart, Poe, Riley, Swick

The Department of English, in keeping with the objective of the College recognizes its responsibility of not only training students in the effective use of the English language, but also contributing to their cultural growth. Accordingly, proficiency in the communication skills—reading, writing, speaking, and listening—and in creative reading and appreciation of literature, contributing to the all-around development of the students, may be considered as fundamentally the aims of the instructional program.

Major Requirements: A minimum of thirty-eight (38) semester hours, including the courses—En 101-2, En 201-2, En 301-2, En 305-6, En 321 (1 hrs. selected from En 307, 308, 310, 401, 402, 405, 406, 408), En 499.

Suggested Program—B.A. in English

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Music	2	–
Humanities 251	–	2
Physical Education	1	1
Foreign Language	3	3

Sophomore Year	1st Sem.	2nd Sem.
English 201-2	3	3
English 301-2	2	2
Foreign Language	3	3
Science	4	4
History 205-6	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 305-6	2	2
English 321	2	–
History and/or Pol. Sci.	3	3
Social Science	3	3
Advanced English courses (307, 308, 309, 310, 401, 402, 405, 406, 407, 408)**	6	6
General Electives	2	4

Senior Year	1st Sem.	2nd Sem.
English 499	2	–
Advanced English courses (307, 308, 309, 310, 401, 402, 405, 406, 407, 408)**	6	6
Philosophy 352	3	–
General Electives	3	8

* Freshmen who qualify through placement examination for En 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the College's basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** One course in Modern Literature is required in the Junior or Senior year (offered only on alternate years).

Courses of Instruction

En 100 Developmental Reading—A course designed to increase efficiency in study-reading techniques, comprehension, and rate. Individual counseling and guidance is an integral part of the program. No credit.

En 101-102 English Composition—A course in the principles of writing compositions, mostly in expository and persuasive discourse. Second semester is devoted largely to writing the documented library research paper. 3 hours—6 credits.

En 103 Advanced Composition—A one-semester acceleration of En 101-102, with enrollment open only to students earning superior scores in the college English-achievement tests. 3 hours—3 credits.

En 201-202 Survey of English Literature—A study of selections in poetry and prose from the Anglo-Saxon period to the present time; aims to acquaint the student with the major movements in literature and to develop an appreciation of literature itself. 3 hours—6 credits.

En 207-208 World Literature—A study of a selected group of writings from Eastern and Western cultures and their relation to our present world. 3 hours—6 credits.

En 215-216 Journalism—An introductory course including a study of newspapers and news-values, with emphasis on effective news reporting through the analysis and writing of news stories, editorials, and feature articles; designed

for the college newspaper staff member and the prospective teacher interested in school publication procedures. 3 hours—6 credits.

EN 301-302 AMERICAN LITERATURE—Representative authors and periods from the Colonial Period to the present, a careful study of the major part of the work of the best writers. 2 hours—4 credits.

EN 305-306 SHAKESPEARE—A consideration of the origin and development of the English drama together with a study of the chief plays of Shakespeare. *Prerequisite En 201-202.* 2 hours—4 credits.

EN 307 THE SIXTEENTH CENTURY—Tudor prose and poetry. Elizabethan and Jacobean drama. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1963–1964.

EN 308 THE SEVENTEENTH CENTURY—A study of English literature from the death of Elizabeth I to 1660, including Milton but not the dramatists. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1963–1964.

EN 309 EIGHTEENTH CENTURY I—The poetry and prose of Restoration England and the Augustan Age to 1745. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1964–1965.

EN 310 EIGHTEENTH CENTURY II—A study of English poetry and prose from 1745 through the non-Romantic Regency, including the novel of eighteenth-century England. *Prerequisite En 201-202.* 3 hours—3 credits. Offered 1964–1965.

EN 313-314 PROBLEMS IN PLAY DIRECTING—A practical course for teachers and directors of drama in elementary and secondary schools, in churches, or community theatres; general and historical techniques in directing together with modern forms of arena and space staging. Practical experience, on production staff, first semester; direction of one-act play, second semester. 2 hours—4 credits. Offered 1963–1964.

EN 315 ADVANCED JOURNALISM—A study of the advanced aspects of journalism with particular emphasis on copy reading and newspaper make-up. *Prerequisite En 215-216.* 2 hours—2 credits.

EN 318 CREATIVE WRITING—A course to instruct the student in the production of original written works in the shorter literary forms of his choice, and to acquaint him with literary terminology. *Admission by consent of the instructor.* 3 hours—3 credits.

EN 321 SPEECH—A study of effective speaking; emphasis upon the correction of speech defects, proper articulation, poise, and interpretative reading; speaking from notes, and preparing outlines. 2 hours—2 credits.

EN 322 ADVANCED SPEECH—A consideration of processes and techniques of effective communication practice; drill in parliamentary procedure, discussion speaking, listening, semantics, and radio speaking. *Prerequisite En 321.* 2 hours—2 credits.

EN 323 ARGUMENTATION AND DEBATE—A study of the theory of influencing belief and conduct; procedures in argumentative speech from gathering materials and analyzing the proposition through delivery and rebuttal. 2 hours—2 credits.

EN 333 INTERCOLLEGIATE DEBATE—Satisfactory participation for one year in competitive intercollegiate debate; permission of director of forensics required. 2 hours—2 credits.

EN 342 ADVANCED LINGUISTICS—An investigation of English language and usage to the present time, with stress upon etymology, phonetics, morphology, syntax, and applied linguistics. 3 hours—3 credits.

N 401 The Romantic Movement—Poetry and prose from 1786 to 1830 after a preliminary examination of the "pre-Romantic movement") with major mphasis upon Burns, Wordsworth, Coleridge, Lamb, DeQuincey, Shelley, yron, Keats, and Hazlitt. *Prerequisite En 201-202.* 3 hours—3 credits.)ffered 1964–1965.

N 402 The Victorian Period—A study of poetry from Tennyson to eats and non-fictional prose from Carlyle to Wilde. *Prerequisite En 201-202.* hours—3 credits. Offered 1964–1965.

N 405 Contemporary Poetry—A consideration of the chief American nd British poets since 1890 with emphasis upon close-reading of the texts. *rerequisite En 201-202.* 3 hours—3 credits. Offered 1963–1964.

N 406 Modern Drama—A study of the major European and American ramatists from Ibsen to the present. *Prerequisite En 201-202.* 3 hours— credits. Offered 1963–1964.

N 407 The Nineteenth Century English Novel—A study of selected nasterpieces as works of prose art, as turning points in the development of he form, and as reflections of the age. *Prerequisite En 201-202.* 2 hours— credits. Offered 1963–1964.

N 408 Contemporary Novel—A study of the work of major British and American novelists with emphasis upon the development of the novel as an rt form. *Prerequisite En 201-202.* Offered 1963–1964.

N 411-412 Dramatic Production—The art of producing plays. The first emester includes: staging and costume design and practicum; the second emester, lighting and make-up, lectures and laboratory. Each student assists n a major production, the first semester, and directs a one-act play, the second emester. 2 hours—4 credits. Offered 1964–1965.

ndependent Study—This course is designed to give the individual student n opportunity to pursue work in an area of major interest under the guidance f a member of the Department. *Admission by consent of the instructor and he Chairman of the Department.* 2 hours—2 credits.

Fine Arts

The courses in Fine Arts are designed to give students an insight into the neaning and importance of the visual arts. No major is offered in this area.

Hu 211 Oil Painting—Instruction in the practices of studio easel painting n the oil medium, with emphasis on still-life compositions. Open also to non- ollege enrollees. *Admission by consent of instructor.* 3 hours—3 credits.

Hu 251 History and Appreciation of the Fine Arts—A study of the ine arts in the modern Western epoch and the underlying aesthetics that have ariously characterized them. 2 hours—2 credits.

Hu 350 Cultural Arts—Designed to treat the material of Hu 251 on a eminar basis through world travel or in a formal class situation. 3 credits.

Hu 361-362 Great Books—This course is designed to introduce the student o the great ideas of the Western world by reading in primary sources the iterary works of major contributors to our Western intellectual heritage. Wide eading and a discussion of the material read will constitute the primary re- uirements of the class. Since the success of this type of course depends upon relatively small number of participants, the size of the class will be limited. Open to juniors and seniors. 3 hours—6 credits.

Department of History and Political Science

Associate Professor Nelson, Chairman of Department
Associate Professor Hood
Assistant Professors: Hess, Zaccano

The study of history fulfills the need of man to orient himself in time. The historian believes that the present is what the past has made it and that no real understanding of the conditions and problems of life today is possible without a knowledge of the forces and events which shaped them.

Aside from the cultural opportunities offered by history courses, they offer a student opportunities to develop in three ways that will be useful to him every day regardless of his future place in life: he can learn to read critically, he can learn to write effectively, and he can learn to produce a synthesis of the knowledge thus discovered so that the relationships between fact and ideas can be comprehended in a meaningful pattern.

The aim the History and Political Science Department is in harmony with the basic objective of the liberal arts, i.e., to produce graduates broadly and humanely educated and prepared through intellectual discipline to assume a career in any of the professions, business, or government service. In addition the program offers a sound preparation for those qualified students who wish to pursue further study at the graduate level.

Major Requirements: A minimum of thirty-two (32) semester hours is required for the History and Political Science Major.

Social Science Majors should choose their electives in such a way as to assure a minimum of six (6) hours in each of the following: Economics, Sociology and Political Science. Minimum number of semester hours required in the field—forty-two (42).

Secondary Education Majors should consult that department for certification requirements.

Suggested Program—B.A. in History and Political Science, B.A. in Social Studies

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Humanities 251	2	–
Music	–	2
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem
English 201-2 or 207-8	3	3
History	3	3
Economics and/or Soc.	3	3
Foreign Language	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
History 303-4	3	3
Literature	2	2
History and Political Science Electives	6	6
General Electives	4	4

Senior Year	1st Sem.	2nd Sem.
Philosophy 451 or 452	3	–
Political Science 352	–	3
History 499	2	–
General Electives	10	12

* Freshmen who qualify through placement examination for En 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the College's basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

A. History

Hi 101-102 History of Western Civilization—A brief survey of the development of Western Civilization from its earliest beginning to the present day; stress on long-range movements and trends; aims to give the student a basic knowledge of his own political, economic, and cultural background. 2 hours—4 credits, or 3 hours—6 credits.

Hi 203 History of the Renaissance and Reformation—A survey of the history of Europe from about 1400 to 1648; a portrayal of the transition of European society, institutions, and thought from the Middle Ages to modern times. 3 hours—3 credits.

Hi 204 History of Europe During the 17th and 18th Centuries—The age of absolutism in Europe from 1648 to Napoleonic times; emphasis on the politics and diplomacy of the older European powers as well as the arrival of Russia and Prussia into the family of nations, the intellectual foundations of political and economic liberalism as a background to the 19th century, and the imperial struggles between European powers. 3 hours—3 credits.

Hi 205-206 English History—A consideration of the entire span of English History from the most ancient times to the present with special attention to the development of parliamentary government. 3 hours—6 credits.

Hi 207 Nineteenth Century Europe—A portrayal of the history of Europe from the Congress of Vienna to World War I, with particular emphasis on the political, social, economic and diplomatic development of Europe in this period. 3 hours—3 credits.

Hi 208 Twentieth Century Europe—A general survey of World War I and a characterization of twentieth century society; the focus is on the rise of totalitarian ideologies, the plight of democracy, the great depression and the effect of both World Wars. 3 hours—3 credits.

Hi 303-304 History of the United States and Pennsylvania—An introductory survey of major developments and movements in the history of the United States with consideration of social, cultural, political, and economic trends; attention to the history of Pennsylvania as it reflects significant trends in the history of the United States. 3 hours—6 credits.

Hi 305 Economic History of the United States—A study of the developments of American economic life from the agrarian economy of the Colonial Period to the highly complex industrial economy of the present day. *Prerequisite Hi 303-304 or permission of the instructor.* 3 hours—3 credits. Offered 1963–1964.

Hi 306 Recent History of the United States—The development of the United States since 1890 with emphasis on social, intellectual, and economic implications. 3 hours—3 credits. Offered 1963–1964.

Hi 313-314 Russian History—The Development of Russia from its medieval origins to the present, with emphasis placed on the development of Czarist institutions, and on Russia since the revolution of 1917. 3 hours—6 credits.

Hi 403-404 Diplomatic History of the United States—A study of the major developments in the international relations of the United States from colonial times to the present day. *Prerequisite Hi 303-304, or permission of the instructor.* 2 hours—4 credits. Offered 1964–1965.

Hi 406 European Diplomacy Since the Congress of Vienna—A survey of the conduct of European diplomacy since the fall of Napoleon to the present day with emphasis on the period since 1870 as the diplomacy leading up to both World Wars and the peace negotiations following these wars are presented. 3 hours—3 credits. Offered upon sufficient demand.

Hi 407 The Ancient World—A survey of the Ancient Orient, followed by detailed consideration of Greece, Hellenistic imperialism, Rome, and the rise and fall of the Roman Empire. Emphasis on social, political and cultural problems of the general period. 3 hours—3 credits. Offered 1963–1964.

Hi 408 Medieval History—A survey of the History of Europe from 300 A.D. to 1500 A.D.; development and subsequent decline of medieval institutions; emphasis on the religious, political, economic and intellectual currents in the West and to some extent in the East, on the development of the Christian Church and Christian thought and philosophy in their historic setting, and on the early foundations of Modern Europe. 3 hours—3 credits. Offered 1963–1964.

Hi 499 The Senior Seminar—A study of the methods employed in historical research, the development of historical writing, and some of the dominent views or explanations of history. A major research project will be required. Required for all senior majors. 2 hours—2 credits.

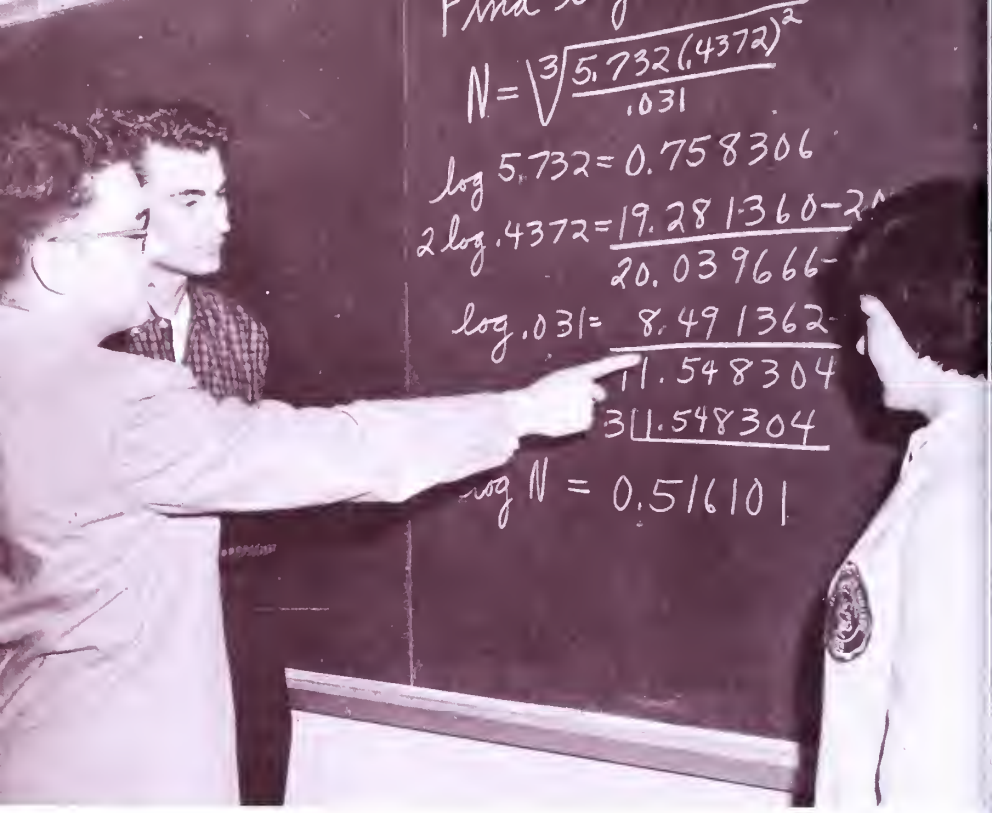
Independent Study—A program of individual study for advanced students. Given by permission only and under the supervision of the department. Credit: 1 or 2 hours.

B. Political Science

PS 313 International Relations—The theory and practice influencing the relations between states with special emphasis on the more important international organizations. 3 hours—3 credits. Offered 1963–1964.

PS 352 American National Government—A survey of the political institutions of the United States and their evolution to the present day with emphasis on the contemporary period. 3 hours—3 credits.

PS 414 Comparative European Governments—A survey of the political institutions of the various European states with consideration to their historical development; stress on the governments of Russia, Germany, France, England, and Italy; a seminar course when class size permits. *Prerequisite Hi 207 and 208 or permission of the instructor.* 2 hours—2 credits. Offered 1964–1965.



Department of Mathematics

Associate Professor Bossler, Chairman of Department
Assistant Professors: Koontz, Swick, Wycoff

The courses in mathematics are designed to prepare the mathematics major for teaching or graduate school; to furnish the students of engineering and science the necessary mathematical background for use in their fields; and to give students of other departments the experience of mathematical reasoning and acquaintance with mathematical methods.

Major Requirements: For mathematics majors in the B.S. or B.A. programs, a minimum of fifteen (15) of the eighteen (18) semester hours listed in the Junior and Senior years is required.

For students obtaining secondary education certification, a minimum of thirty (30) hours in mathematics is required with eleven (11) of these hours in courses numbered 300 and above.

Upon recommendation of the adviser, students may elect Ma 153, 154, 164, and 166 instead of Ma 103 and 164.

If a student chooses to elect more than one of the following three (3) courses: Ma 174, 166, or BA 343, he will receive no credit beyond the three (3) semester hours granted for the first course taken.

Suggested Programs—B.A. or B.S. in Mathematics

A. Bachelor of Arts in Mathematics

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Mathematics 103	4	–
Mathematics 164	–	4
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or 207-8	3	3
Mathematics 201-2	4	4
General Psychology 101-2	2	2
Foreign Language	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Mathematics 303	3	–
Mathematics 304	–	3
Mathematics 311	3	–
Mathematics 314	–	3
History and/or Pol. Sci.	3	3
Literature	2	2
Humanities 251 or Music 211	2	–
Electives	3	5

Senior Year	1st Sem.	2nd Sem.
Mathematics 401-2	3	3
Philosophy 351 or 352	3	
Electives	9	12

B. Bachelor of Science in Mathematics

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Mathematics 103	4	–
Mathematics 164	–	4
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2, or 207-8	3	3
Mathematics 201-2	4	4
General Psychology 101-2	2	2
Foreign Language	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Mathematics 303	3	–
Mathematics 304	–	3
Mathematics 311	3	–
Mathematics 314	–	3
Science**	4	4
Social Science including one course in History or Political Science	3	3
Electives	3	3

Senior Year	1st Sem.	2nd Sem.
Mathematics 401-2	3	3
Philosophy 351 or 352	3	–
Science**	4	–
Electives	5	12

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** The requirement in science is fourteen (14) semester hours, including one year beyond the survey course or eighteen (18) semester hours, including one semester beyond the survey course.

Ma 103 Mathematical Analysis—A modern, unified presentation of algebra and trigonometry; a foundation course for further study in mathematics, physical science, or engineering. *Prerequisite Acceptable mathematics placement test score.* 4 hours—4 credits.

Ma 151 Basic Mathematics—Designed for students who do not have the necessary secondary school work in mathematics to prepare them for College Algebra. The course includes basic principles and drill necessary for the study of College Algebra or Mathematics of Business. 3 hours—3 credits. Not applicable for hour requirements for the mathematics major.

Ma 153 College Algebra—A fundamental course in college mathematics serving as a basis for further study in mathematics at various levels. *Prerequisite Ma 151 or acceptable mathematics placement test score.* 3 hours—3 credits.

Ma 154 Trigonometry—The concepts of plane triangle solving and analytical trigonometry with stress on the latter; serves as a background for further mathematics and science courses. *Prerequisite Ma 153 or concurrently with Ma 153 by permission of the Mathematics Department.* 3 hours—3 credits.

Ma 162 Mathematics of Business—Specific elementary topics with business applications: simple interest, bank discount, credit charges, chain discounts, logarithmic computations, and elementary compound interest. *Prerequisite Ma 151.* 3 hours—3 credits. Not applicable for hour requirements for the mathematics major.

Ma 164 Analytical Geometry—A course of coordinate geometry using algebraic methods entirely; emphasis on general curve analysis and conic sections; foundations of three dimensional systems. *Prerequisite Ma 154.* 4 hours—4 credits.

Ma 166 Higher Algebra—A continuation of work in algebra including the following topics: theory of equations, determinants, permutations and combinations, probability, and mathematical induction. *Prerequisite Ma 153.* 3 hours—3 credits.

Ma 168 Mathematics of Finance—Introductory phases of finance on a non-calculus level covering the following topics: simple interest, logarithmic computation, compound accumulation and present value, general annuities, certain bonds, sinking funds, and introductory life insurance and life annuities. *Prerequisite Ma 135.* 3 hours—3 credits.

Ma 174 Survey of Mathematics—Designed as a terminal course for students who will not earn more than a total of 6 semester hours credit in mathematics. The course includes the following topics: ratio, proportion, and variation; an introduction to finance, probability, and statistics; and glimpses of the following areas of modern mathematics: the basis of our number system, theory of numbers, and logic. *Prerequisite Ma 151 or acceptable mathematics placement test score.* 3 hours—3 credits.

Ma 201-202 Calculus—Differential and integral calculus with applications. Both differential and integral calculus are studied in the first semester. The second semester includes further study of both and a study of infinite series. *Prerequisite Ma 103 and Ma 164 or Ma 153, 154, and 164.* Ma 164 also is highly recommended for those who have not taken Ma 103. 4 hours—8 credits.

Ma 303 Modern Algebra—Elementary theory of sets, integral domains, polynomial domains, fields and groups. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 304 Linear Algebra—Vector spaces, matrices, systems of linear equations, and linear transformations in a vector space. *Prerequisite Ma 201-202.* 3 hours—3 credits.

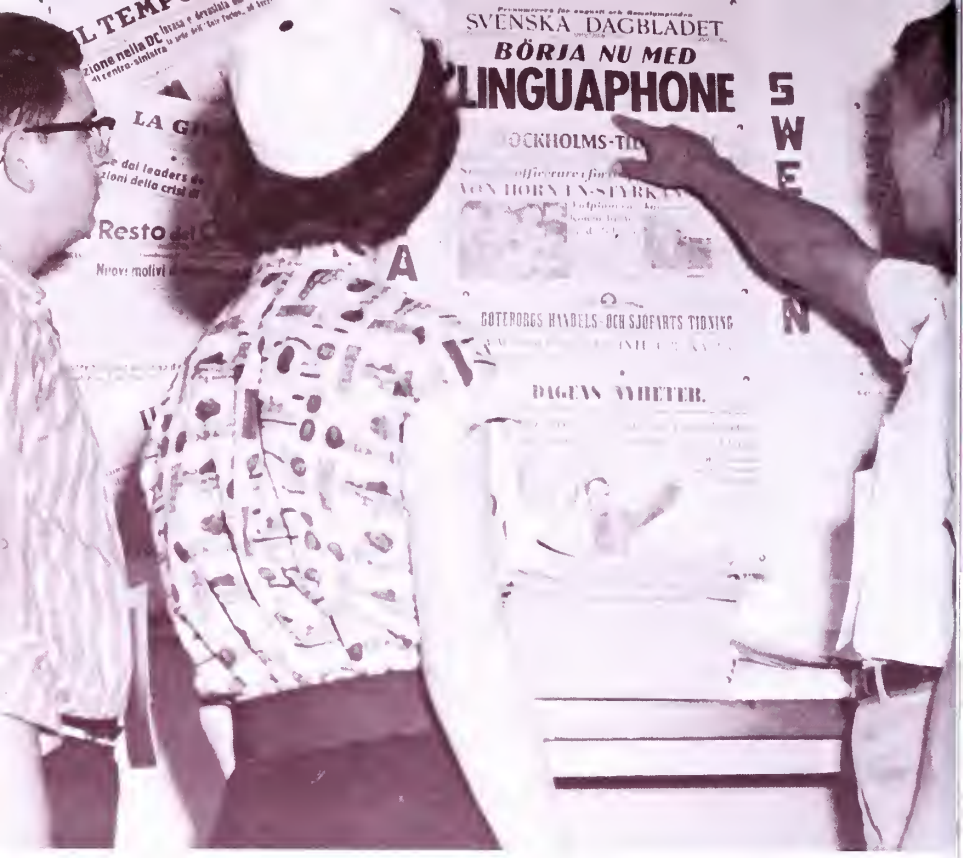
Ma 311 Differential Equations—The solution of ordinary differential equations, covering first and second order equations and linear equations; basic infinite series methods; stress on theory and on applications in science and engineering. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 314 Mathematical Statistics—A background course for intensive study at either the applied or theoretical level; the concepts and methods of elementary probability and statistics; proofs of theorems presented when possible, applications covered to a limited extent. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 401-402 Advanced Calculus—Critical study of functions, limits, continuity, derivatives, and integrals. Theory of infinite series and special topics. Emphasis on theory rather than applications. *Prerequisite Ma 201-202.* 3 hours—6 credits.

Ma 499 Seminar in Mathematics—Designed to acquaint future teachers with some of the new mathematics programs and to discuss various methods and techniques of teaching mathematics. Open only to students concurrently registered for Ed 451. 2 hours—2 credits.

B. Mary Royer Hall—Residence for Women



Department of Modern Languages

Professor Neumann
Assistant Professor Grinbergs
Instructors: Herr, R. Eisenbise

The Department of Modern Languages offers instruction in French, German, and Spanish. The courses are planned to meet the demand for practical use of the language as well as the cultural needs of all students.

The faculty of the language department has long been aware of the urgent need for people well trained in foreign languages, and the program of language instruction has been broadened and, at the same time, made more practical in order to serve the special needs of the science students as well as teachers for elementary and secondary levels of language instruction.

The department also prepares students to major in French, German, or Spanish at the graduate level.

Major Requirements: Total number of semester hours required in the department—twenty-four (24) in the first language and twelve (12 in the second.

Secondary and Elementary Education Majors should consult the Department of Education for certification requirements.

Suggested Program—B.A. in Modern Languages

Freshman Year	1st Sem.	2nd Sem.
German, French, or Spanish 101-2 or 201-2**	3	3
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Physical Education	1	1
Music 211	2	–
Humanities 251	–	2

Sophomore Year	1st Sem.	2nd Sem.
German, French, or Spanish 201-2 or 203-4***	3	3
Second Language	3	3
English 207-8	3	3
History 203-4	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Language Lit. 301-2	3	3
Second Language	3	3
English 321	2	–
History 207-8	3	3
Sociology or Economics	3	3
Electives	3	5

Senior Year	1st Sem.	2nd Sem.
Language Lit. 305-6	3	3
Philosophy 351 or 352	3	–
Electives	8	11

* Freshmen who qualify through placement examination for En 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the College's basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** Level, Basic or Intermediate, depending on placement test results.

*** Intermediate or Advanced Major Language depending on placement test results and successful completion of the freshman year course.

Courses of Instruction

A. Esperanto

Es 101 Esperanto—A study of the international language, Esperanto, including grammar, readings, and conversation. A student having completed this course satisfactorily may receive a diploma issued by the Esperanto Association of North America. 3 hours—3 credits. Not offered 1964–1965.

B. French

Fr 101-102 Basic French—Designed for students beginning French in college; includes drills in pronunciation, patterns of conversation, grammar, dictation, and the reading of simplified stories. No prerequisite. 3 hours—6 credits.

Fr 201-202 Intermediate French—A review of the essentials of grammar, practice in conversation, and the reading of representative works of French literature. *Prerequisite Fr 101-102 or qualifying grade in placement test.* 3 hours—6 credits.

Fr 203 Advanced French—Study of vocabulary, idiomatic expressions, sentence structure; writing themes and reading French masterpieces of various types and periods. Designed as a transition course from Intermediate French to French literature courses. *Prerequisite Fr 201-202 or qualifying grade in placement test.* 3 hours—3 credits.

Fr 204 Early French Literature—Reading of French literature from the earliest times to the end of the Sixteenth Century. Particular attention to such authors as Villon, Rabelais, Ronsard, and Montaigne. *Prerequisite Fr 203 or permission of instructor.* 3 hours—3 credits.

Fr 301-302 Literature of the 17th and 18th Centuries—Works of Descartes, Corneille, Racine, Moliere, Pascal, Marivaux, Montesquieu, Voltaire, Rousseau, and others. *Prerequisite Fr 201-202.* Not offered 1964–1965. 3 hours—6 credits.

Fr 305-306 Literature of the 19th and 20th Centuries—Works of Chateaubriand, Lamartine, Hugo, Balzac, Stendhal, Flaubert, Sartre, Proust, Camus, and others. *Prerequisite Fr 201-202.* Not offered 1963–1964. 3 hours—6 credits.

C. German

Ge 101-102 First Year German—Drill in pronunciation, the essentials of grammar, practice in speaking, writing, and translation from prose selections. 3 hours—6 credits.

Ge 201-202 Second Year German—A review of grammar and the translation of plays and novels. *Prerequisite Ge 201-202 or two years of high school German.* 3 hours—6 credits.

Ge 301-302 Third Year German—Beginnings of German literature through the Reformation and Renaissance. *Prerequisite Ge 201-202.* 3 hours—6 credits. Not offered 1964–1965.

Ge 305-306 German Classicism and Romanticism—Emphasis upon authors such as Klopstock, Lessing, Goethe, Schiller, Grillparzer, and Heine. *Prerequisite Ge 201-202.* 3 hours—6 credits. Not offered 1963–1964.

D. Spanish

Sp 101-102 Basic Spanish—The study of elementary grammar, everyday vocabulary, idiomatic expressions, and sentence structure. Emphasis on pronunciation and aural training. 3 hours—6 credits.

Sp 201-202 Intermediate Spanish—Further study of basic grammar, vocabulary, idiomatic expressions, and sentence structure. Emphasis on oral expression and conversation. *Prerequisite Sp 101-102 or qualifying grade in placement test.* 3 hours—6 credits.

Sp 203 Advanced Spanish—Advanced study of grammar, vocabulary, expressions, and sentence structure. Emphasis on reading comprehension and composition. *Prerequisite Sp 201-202 or qualifying grade in placement test.* 3 hours—3 credits.

Sp 204 Survey of Spanish American Literature—An historical survey of the major literary and cultural developments of Spanish America from the Conquest to the present time. *Prerequisite Sp 203 or permission of instructor.* 3 hours—3 credits.

Sp 301-302 Spanish Literature to 1700—A survey of the principal literary trends and a study of the major authors of Spain and Spanish America up to the Golden Age. *Prerequisite Sp 201-202.* Not offered 1963–1964. 3 hours—6 credits.

Sp 305-306 Spanish Literature from 1700—A survey of the principal literary trends and a study of the major authors of Spain and Spanish America from 1700 to the present day. *Prerequisite Sp 201-202.* Not offered 1964–1965. 3 hours—6 credits.

Department of Music

Professor Fisher, Chairman of Department
Assistant Professor Shull, Director of Music Education
Assistant Professors: Bailey, Willoughby
Instructor Kauffman

The Department of Music offers many opportunities for the study of music both in groups and by individual instruction. The close relationship existing between literature and the arts makes the college a place where the two may be advantageously studied together.

The student who majors in music at Elizabethtown College, because of his particular aptitudes and abilities, will obtain a broad liberal arts and professional education within an environment concerned with the social, moral, and spiritual life of each student. It is expected that through the study of music education a teacher will be able to pass on to younger generations a love for musical beauty, the knowledge of music as an art, and a capacity to participate in music as a beneficial social activity.

Students desiring to meet certification requirements for teaching music in the public schools of Pennsylvania will find a program geared to qualify them to teach both vocal and instrumental music at the elementary and secondary levels.

Major Requirements: The following courses are required of all Music Education Majors: Mu 101-2, Mu 103-4, Mu 201, Mu 203-4, Mu 208, Mu 311, Mu 312, Mu 316, Mu 321-22, Mu 331, Mu 333, Mu 340, Mu 342, Mu 407, Mu 415, Mu 441-42, Mu 489-90.

Music education majors are required to take two private half-hour lessons per week in Applied Music during the first two years and one half hour lesson per week during the final two years. They are also expected to obtain both vocal and instrumental ensemble credit.

Vocal and piano proficiency examinations are required of all music education majors, taken upon application to the Director of Music Education.

Before being permitted to do student teaching in music, a student must have the approval of the Head of the Education Department and the Director of Music Education.

Suggested Program—B.S. in Secondary Education

(Music Education Major)

Freshman Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
Second	1	1
English 101-2*	3	3
Bible 101-2	2	2
Science	4	4
Music 101-2	3	3
Music 103-4	1	1
Music Ensemble	1	1
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
Second	1	1
Foreign Language	3	3
English 201-2 or 207-8	3	3
Music 201	3	–
Music 203-4	1	1
Music 208	–	2
General Psychology 101-2	2	2
Education 154	–	3
Music Ensemble	1	1
Bible or Philosophy Elec.	2	–
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
History 303-4	3	3
Education 203	3	–
Music 311	3	–
Music 312	–	3
Music 321-22	2	2
Music 316	–	1
Instrumental Classes		
Music 331	1	–
Music 340	–	2
Music 342	–	2
Music 333	1	–
Music Ensemble	1	1
Humanities 251	2	–

Senior Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
Music 407	2	–
Music 441-42	3	3
Music 415	1	–
Music 489-90	4	4
Electives**	3	4

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** Liberal arts electives, unless other permission is obtained.

Courses of Instruction

A. Music Courses

Mu 101-102 Harmony—A study of the rhythmic, melodic, and harmonic components of music, including scales, chord structures, non-chordal tones, and simple modulations. Emphasis upon analysis and creative writing. Three hours credit each semester.

Mu 103-104 Sight-Singing and Ear Training—A course designed to cultivate aural and oral skills in music. Includes singing and writing of rhythmic, melodic, and harmonic progressions dictated by voice or piano. One hour credit each semester.

Mu 201 Advanced Harmony—A continuation of Music 101-102 involving more intensive and detailed study of harmonic techniques of the 18th–20th centuries. Survey and application of seventh, ninth, and eleventh chords; borrowed and altered chords; and more involved modulations. Stress upon individual creative work and composition throughout the course. *Prerequisite Mu 101-102.* Three hours credit.

Mu 203-204 Advanced Sight-Singing and Ear Training—A continuation of Music 103-104 involving further development of sight-reading and dictation abilities. Three and four-part writing stressed in the second semester. Extensive part-singing training an integral phase of the course. *Prerequisite Music 103-104.* One hour credit each semester.

Mu 208 Keyboard Harmony—A course designed to develop skills in harmonizing melodies at the piano using various appropriate chord structures, modulatory progressions, and suitable piano accompaniments for given melodies. Some attention given to improvization techniques. *Prerequisite Music* 201. Two hours credit.

Mu 211 History and Appreciation of Music—A study of historical art periods with particular attention given to great composers and their outstanding compositions. 3 hours—2 credits.

Mu 212 Church Music—A study of the music of the Christian Church—historical, theoretical, and practical—preparing the student for better musical participation or leadership in any Protestant denomination. Two hours credit.

Mu 303 Fundamentals of Music—A basic study of the science of sound; elements of notation; voice and choirs; instruments, band and orchestras; the directing of group singing; and a brief survey of the history of music. Three hours credit.

Mu 311 Music in the Elementary School—A thorough study of music objectives, materials, and methods for elementary schools through singing, rhythmic, creative, and listening programs. Detailed study and use of recent school music series. Observation and laboratory apportunities included. *Prerequisite Music 208.* Three hours credit.

Mu 312 Music in the Secondary School—Methods and materials for secondary music classes. Attention is given to adolescent voice problems, choral literature appropriate for school groups, general music class materials, organizational procedures, and class planning. Observation and laboratory experience included. Three hours credit.

Mu 316 Instrumental Methods and Materials—A course dealing with problems of administering a school instrumental program. Teaching methods and materials for large groups, class, and private lessons will be presented and evaluated. One hour credit.

Mu 321-322 Choral and Instrumental Conducting—A course designed to give students knowledge and facility in directing choruses, bands, and orchestras. Conducting techniques and problems, score reading, and interpretation will be emphasized. Two hours credit each semester.

Mu 331 Brass Class—A course including the method of tone production, fingerings or positions, care and repair, and methods and materials for teaching trumpet or cornet, French horn, baritone, trombone, and bass horn. One hour credit, two class meetings per week.

Mu 333 Percussion Class—A course including the methods of tone production, care and repair, and methods and materials for teaching snare drum, bass drum, cymbals, tympani, and other percussion instruments. One hour credit, two class meetings per week.

Mu 340 Woodwind Class—A course including the methods of tone production, fingerings, care and repair, and methods and materials for teaching flute, oboe, clarinet, bassoon, and saxophone. Two hours credit, three class meetings per week.

Mu 342 String Class—A course including the method of tone production, fingerings, care and repair, and methods and materials for teaching violin, viola, violoncello, and double bass. Two hours credit, three class meetings per week.

Mu 407 Form and Analysis—A study of the basic principles underlying musical forms with opportunity to analyze their application through auditory and visual music examples. *Prerequisites Music 203 and 208.* Two hours credit.

Mu 415 Music Literature for the Classroom—A course developing familiarity with vocal and instrumental literature appropriate for both elementary and secondary students as listeners. Emphasis upon classic, romantic and contemporary music with some attention to methods of presentation. One hour credit.

Mu 419 Counterpoint—A course emphasizing contrapuntal techniques of the 16th and 17th centuries through representative composers and original compositions. Attention to 18th century counterpoint as time allows. *Prerequisite Music 201.* Two hours credit.

Mu 440 Band Arranging—A course designed to develop the ability to compose or adapt music for concert or marching bands. A study of instrument ranges, limitations, and uses and effects in various combinations is included. *Prerequisites Music 201 and 208.* Two hours credit.

Mu 441-442 History of Music—A comprehensive survey of Western music from ancient to modern times. The course includes the evolution of musical forms, styles and media through careful consideration of music literature and the relation of musical to cultural and historical developments. Three hours credit each semester.

Mu 451 Piano Methods and Materials—This course acquaints the pianist with modern methods of piano teaching of children, youth, and adults, and includes a survey of teaching materials for various stages of progress. Teaching demonstrations will be a part of the course. Two hours credit.

Mu 489-490 Student Teaching in Music—Includes teaching experience in both elementary and secondary music classes. Instrumental and vocal opportunities available. Conferences, observation, and teaching included. Eight hours credit.

Teaching of Music in the Elementary School (for Elementary Education majors) See Education 304

B. Applied Music and Music Organizations

A maximum of eight semester hours in Applied Music and/or Music Organizations may be applied towards an A.B. or B.S. degree (except music education majors). No credit in music organizations is given unless attendance at rehearsals and public performances is satisfactory and unless participation extends over the entire school year.

PIANO, VOICE, ORGAN, BAND AND ORCHESTRAL INSTRUMENTS (Private Instruction)

Students in Applied Music are accepted at any stage of progress, and are advanced as rapidly as their ability, industry, and thoroughness will permit. Technical exercises, etudes, and Classic. Romantic, and Modern pieces are indispensable elements of study at all times in instrumental applied areas. In Voice, the problems of vocal improvement, technique, breathing, and diction are constantly stressed. Songs and arias by Classical, Romantic, and Modern composers are used to develop taste and to build for each student a repertoire which will contain music appropriate for all occasions. One private lesson and five hours practice per week. One hour credit each semester.

CONCERT CHOIR—Open to any student—acceptance based upon audition at the opening of each school year. In addition to campus and TV performances prior to Christmas and participation in the annual Spring Concert, this group sings approximately twenty concerts in churches and schools in Pennsylvania and neighboring states each spring. 3 hours—2 credits per year.

CONCERT BAND—Open to any student—acceptance subject to approval by director—performs at home soccer games and on at least four other occasions—including May Day, the annual Winter and Spring Concerts, and an all-instrumental program. 3 hours—2 credits per year.

CHAPEL CHOIR—Open to any student. Performs sacred choral literature at College Chapel services. 1 hour—1 credit per year.

WOMEN'S CHORUS—Open to any female student who enjoys singing mostly secular music—performs at the annual Winter and Spring Concerts. 1 hour—1 credit per year.

MEN'S GLEE CLUB—Open to any male student who enjoys singing mostly secular music—performs at the annual Winter and Spring Concerts. 1 hour—1 credit per year.

CHORAL UNION—A combination of all vocal groups united for the presentation of great choral literature such as an oratorio. A limited number of rehearsals are projected. No credit.

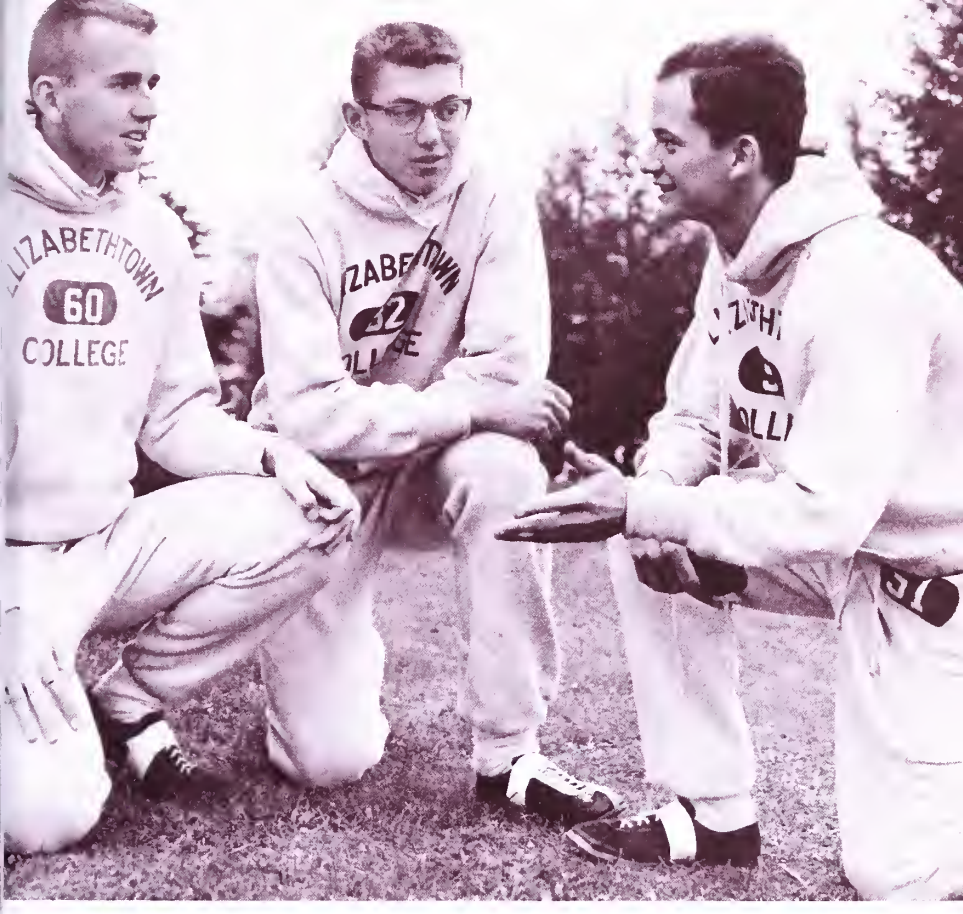
DUFAY SINGERS—A group of nine students selected from the Concert Choir to sing sacred and secular music from the 15th to 18th centuries. Small ensembles will be formed from this group to sing for deputation programs. The total group will perform on choir programs, assemblies, and special functions. 1 hour—1 credit per year.

LADIES' TRIO—A group selected from the Concert Choir to sing for deputation programs, choir programs, assemblies, and special functions. 1 hour—1 credit per year.

MEN'S QUARTET—A group selected from the Concert Choir to sing for deputation programs, choir programs, assemblies, and special functions. 1 hour—1 credit per year.

STRING ENSEMBLE—Open to any student who plays an instrument of the violin family—acceptance subject to approval by director. Students become familiar with the best of string quartet or string orchestra literature. 1 hour—1 credit per year.

SMALL ENSEMBLE—Vocal or Instrumental—Any students who are organized as an ensemble, who meet regularly under faculty supervision, and who have opportunities for public performance. 1 hour—1 credit per year.



Department of Physical Education and Health

Assistant Professors: Smith, Wright
Instructors: Hess, Nearing

The Department of Physical Education and Health affords an opportunity for all students to develop an interest in play and recreation that will be of use and pleasure to them during college and later life; to develop social and moral standards such as sportsmanship, teamwork, tolerance, and other character benefits which come from properly conducted play. It affords an opportunity for the development and maintenance of organic power of the body which will aid in good health. The department further provides facilities and opportunities for the improvement of neuro-muscular skills in coordination and correct use of the body.

The required program for all students in the first two years includes health instruction for good living practices, practice and instruction in the fundamental skills and elementary training in volleyball, touch football, wrestling, basketball, bowling, badminton, tennis, softball, soccer, and individual exercise. Swimming and aquatic activities are conducted by the college staff.

Basic Requirement: All students at Elizabethtown College are required to take at least four (4) semester hours of physical education courses. Most curriculums call for (PE 103-4, 203-4-men) and (PE 101-2, 201-2-girls) to be taken during the first two years of college unless otherwise prescribed in a specific program. Elementary Education Majors take PE 251 and 252.

Students participating actively in varsity sports may, at the discretion of the instructor, be excused from Physical Education classes for the duration of their participation and may receive credit for the Physical Education course in which they are enrolled.

Courses of Instruction

PE 103 Men's Physical Education—Instruction and practice in the fundamental techniques of soccer, wrestling, and volleyball. Interpretation of the playing rules of these sports. 2 hours—1 credit.

PE 104 Men's Physical Education—Instruction and practice in the fundamental techniques of elementary swimming, badminton, bowling, and softball. Interpretation of the playing rules of these activities and sports. 2 hours—1 credit.

PE 203 Men's Physical Education—Instruction and practice in the fundamental techniques of touch football, volleyball, and swimming activities. Interpretation of the playing rules of these sports. *Prerequisite PE 103-104.* 2 hours—1 credit.

PE 204 Men's Physical Education—Instruction and practice in the fundamental techniques of basketball, tennis, bowling, and archery. Interpretation of the playing rules of these sports and activities. *Prerequisite PE 103-104.* 2 hours—1 credit.

PE 101 Women's Physical Education—Instruction and practice in the fundamental techniques of field hockey, volleyball, and basketball. Stressing the development of basic skills and knowledge of these activities. 2 hours—1 credit.

PE 102 Women's Physical Education—Instruction and practice in the fundamental techniques of bowling, elementary swimming, and softball. Stressing the development of basic skills and knowledge of these activities. 2 hours—1 credit.

PE 201 Women's Physical Education—Instruction and practice in the fundamental techniques of tennis, soccer, and swimming. Stressing the development of basic skills and knowledge of these activities. *Prerequisite PE 101-102.* 2 hours—1 credit.

PE 202 Women's Physical Education—Instruction and practice in the fundamental techniques of badminton, bowling, and archery. Stressing the development of basic skills and knowledge of these activities. *Prerequisite PE 101-102.* 2 hours—1 credit.

PE 206 Camp Counseling—Instruction and practical experience in camp activities and camp-craft with development of leadership in these activities and the camping program. By appointment. 3 hours—3 credits.

PE 207-208 Administration and Coaching—Organization and management of interscholastic and intramural programs and a study of fundamentals of the various sports, rules, methods of play, techniques, skills, and coaching methods. 2 hours—4 credits.

PE 210 Community Recreation—Nature and function of recreation; adaptation of activities for family recreation, parties, picnics, clubs, and community centers. 3 hours—3 credits.

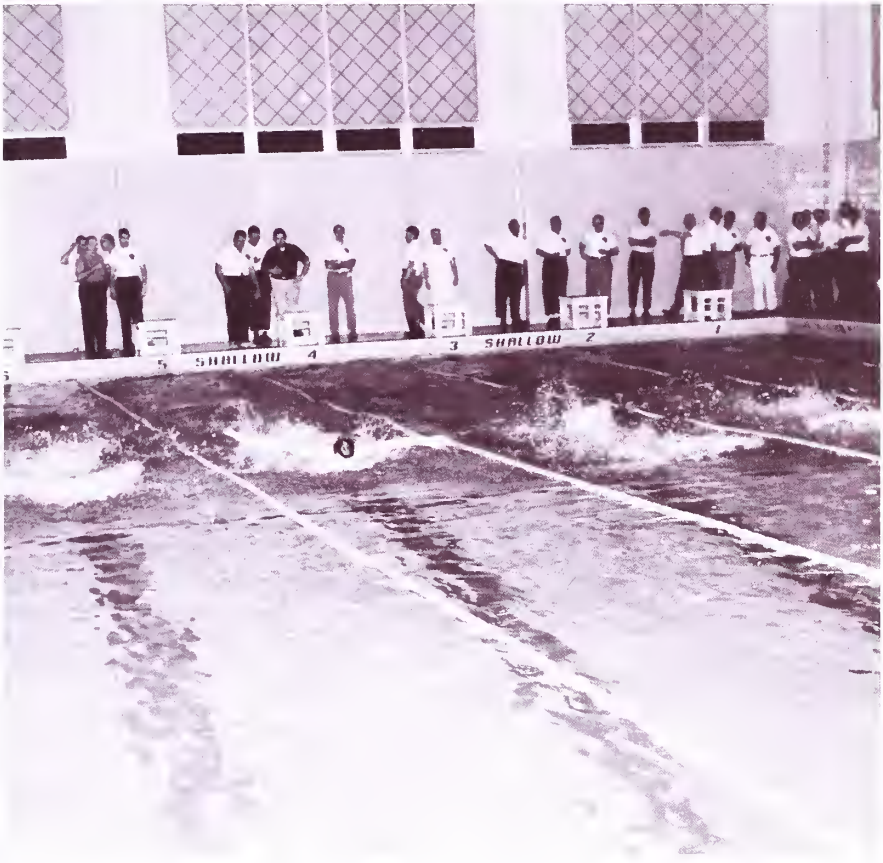
PE 215 Physical Education—Development of knowledge and skills in (nine basic strokes) swimming, fundamentals of diving, competitive swimming, and water games and activities. 2 hours—1 credit.

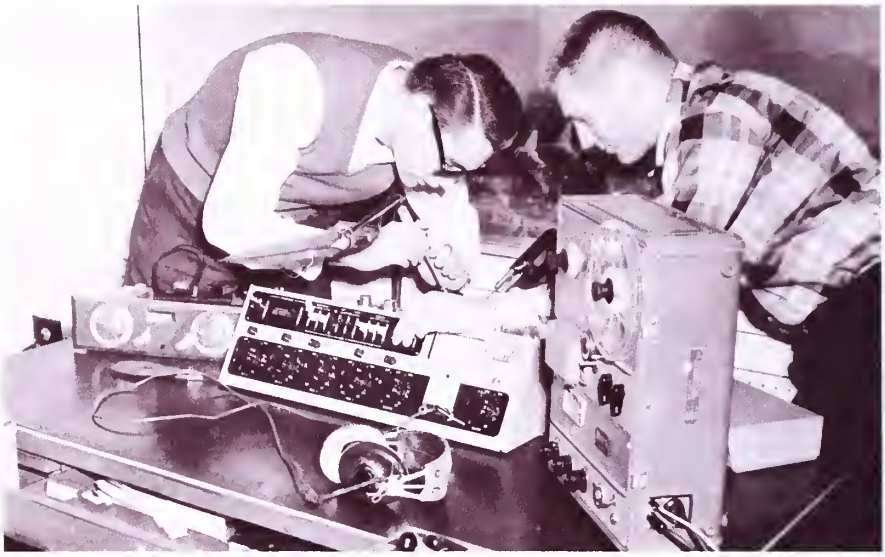
PE 216 Physical Education—Knowledge and practice in life saving, water safety and management of a swimming pool. 2 hours—1 credit.

PE 220 Individual Sports—Methods, techniques, and basic skills in selected sports. 3 hours—3 credits.

PE 251 Health and Hygiene—A study of personal health and hygiene; philosophy, educational principles and techniques applied to teaching situations in health and hygiene. 2 hours—2 credits.

PE 252 Elementary Games and Activities—A study of physical growth of children from ages 4–12, and consideration of games and activities appropriate to the physical development of the child in the elementary grades. 2 hours—2 credits.





Department of Physics

Associate Professor Custer, Chairman of Department
Assistant Professor Byers, Director of Engineering Program
Assistant Professor Swick

The Physics Department of Elizabethtown College has three (3) major instructional objectives. They are:

(1) to train students in the area of physics with graduate school as the ultimate objective.
(2) to train students in the area of teaching with work leading to secondary school certification in the field of physics.
(3) to train students in the area of pre-engineering.

Major Requirements: The following physics and mathematics courses are required of all Physics Majors—Phy 203-4, Phy 205, Ma 103, Ma 164, Ma 201-2, Ma 311, Phy 303-4, Phy 305-6, Phy 401-2, Phy 403, Ma 401, Phy 404.

Suggested Program—B.S. in Physics

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Mathematics 103	4	–
Mathematics 164	–	4
English 101-2*	3	3
Foreign Language**	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Mathematics 201-2	4	4
Physics 203-4	4	4
History 101-2	2	2
Bible 101-2	2	2
General Psychology 101-2	2	2
Foreign Language	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Physics 205	4	–
Mathematics 311	3	–
Physics 303-4	3	4
Physics 305-6	3	3
English 201-2 or 207-8	3	3
Sociology 151 or Business Administration 201	–	3
Philosophy 351 or 352	–	3

Senior Year	1st Sem.	2nd Sem.
Physics 401	3	–
Physics 402	–	4
Physics 403	3	–
Mathematics 401	3	–
Physics 404	–	4
Physics 499	–	2
History 303-4 or 305	3	3
Electives	3	3

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** German is recommended.

Courses of Instruction

Phy 201-202 General Physics—An introduction to the basic concepts of physics including the areas of mechanics, heat, sound, electricity, magnetism, optics, atomic and nuclear. *Prerequisite Ma 154.* 3 hours *r,* 2 hours *l*—8 credits.

Phy 203, 204, 205 Introductory Physics—An introduction to the theory of mechanics, heat, wave motion, electricity, magnetism and light. *Co-requisite Ma 201-202.* 3 hours *r,* 1 *l* (per course)—4 credits each.

Phy 303-304 Electricity and Magnetism—The theory of the static and dynamic forces and fields associated with basic particles, electrical components, measurements, alternating current and radiation. A study of Maxwell's equations will be included. *Prerequisite Phy 205; Co-requisite Ma 311.* 3 hours *r* (1st Sem.)—3 credits. 3 hours *r,* 1 *l* (2nd Sem.)—4 credits.

Phy 305-306 Introduction to Theoretical Mechanics—A study of force, acceleration, work, energy, impulse and momentum. Linear and rotary motion will be analyzed including the use of various types of reference coordinates. The first part of Phy 305 will be devoted to an introduction to vector analysis. *Prerequisite Phy 204, Ma 202.* 3 hours *r*—6 credits.

Phy 401 Atomic Physics—A study of atomic and molecular structure, the quantum theory of radiation and spectra. *Prerequisite Phy 202 or 205, Ma 202.* 3 hours *r*—3 credits.

Phy 402 Nuclear Physics—A study of radioactivity, nuclear forces, nuclear reactions, particles and cosmic rays. *Prerequisite Phy 401.* 3 hours r, 1 hour *l*—4 credits.

Phy 403 Kinetic Theory and Thermodynamics—A study of the kinetic theory of matter and of the principles of thermodynamics including temperature, heat, work, internal energy, entropy and enthalpy. *Prerequisite Phy 204, Ma 202.* 3 hours *r*—3 credits.

Phy 404 Electronics—The basic components of electronic circuits will be studied including vacuum tubes, transistors and diodes. Fundamental circuits will be analyzed. *Prerequisite Phy 205, Ma 202.* 3 hours *r,* 1 hour *l.*

Phy 499 Seminar—Experimental or theoretical study under the direction of a staff member. A formal report of work will be required. *Prerequisite—Permission of Physics Department Head.* 2 credits.

Dr 115-116 Drawing and Descriptive Geometry—A study of reference planes, points, lines, curved surfaces, revolutions, true sizes, intersections, orthographic projection, isometric drawing, auxiliary views, sections, and developments. 1 hour *r,* 5 hours *l*—4 credits.

Department of Psychology

Associate Professor Lasky, Chairman of Department
Assistant Professor West
Lecturer Felice

Psychology is that division of natural science which takes human behavior as its subject matter.

The major in psychology at Elizabethtown College is designed to meet the needs of two classes of students: (1) those who wish to acquire a thorough undergraduate training in the field in anticipation of graduate study and (2) those who want a basic understanding of human behavior as a supplement to some other major course of study.

The study and practice of psychology is one of the most rapidly growing fields in this country. In the United States, the number of properly qualified psychologists has more than tripled in the last decade.

Major Requirements: The psychology major is designed for students who plan to do graduate work in Psychology. A minimum of thirty-one (31) semester hours in Psychology is required for all majors. The required courses are Psy 101-2, Psy 303-4, Psy 321-22, Psy 332, Psy 343, Psy 401.

Suggested Program—B.A. in Psychology

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Foreign Language	3	3
Mathematics	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or 207-8	3	3
Biology 101-2	4	4
Psychology 303	3	–
Psychology 304	–	3
Foreign Language	3	3
European History	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
English Literature	2	2
Sociology 151	3	–
Psychology 321	3	–
Psychology 322	–	3
Psychology 332	–	3
Psychology 343	3	–
History and/or Political Science	3	3
Humanities 251 or Music 211	–	2
Electives	–	3

Senior Year	1st Sem.	2nd Sem.
Philosophy 451 or 452	–	3
Sociology 203	3	–
Psychology 401	3	–
Psychology Elective	3	3
Electives	4	9

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

Psy 101-102 General Psychology—An introduction to the general subject matter of the field aimed at giving the student an overview of psychology; consideration of such topics as motivation, learning, emotions, personality, sensation, and perception. 2 hours—4 credits.

Educational Psychology (See Ed 203).

Psy 303 Experimental Psychology—A laboratory course to acquaint students with the methods of experimentation in the field of psychology. Topics covered in the General Psychology course will be investigated. The student will prepare reports on the experiments and will be assigned readings to relate the material to current topics in psychology. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 304 Theories of Learning and Motivation—This is a course that deals with contemporary learning and motivation theorists. It will include a survey of the outstanding attempts to understand the nature of motivation and the learning process. Emphasis will be placed upon a comparison of current theories and their implications. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 312 Child Psychology—The general growth, maturational, and developmental aspects of the child from conception through adolescence. *Prerequisite Psy 101-102.* 3 hours—3 credits.

PSY 321 PERSONALITY DEVELOPMENT—The role of personality theory in relation to the production of wholesome and unwholesome life adjustments; sources of emotional conflict together with factors that affect personality integration. *Prerequisite Psy 101-102.* 3 hours—3 credits.

PSY 322 ABNORMAL PSYCHOLOGY—The study of various forms of personality maladjustment, their origin, treatment, social significance, and of preventive measures; attention is given to the relation of problems in adjustment for both the normal and deviant. *Prerequisite Psy 321 or permission of the instructor.* 3 hours—3 credits.

PSY 332 SOCIAL PSYCHOLOGY—The treatment of such topics as social perception, attitude formation, social roles, language and communication, interpersonal perception, and influences of socialization in the development of personality. *Prerequisite Psy 101-102.* 3 hours—3 credits.

PSY 343 PSYCHOLOGICAL STATISTICS—An introduction to the quantitative methods used in psychology, including the design of psychological experiments, surveys, and statistical studies, as well as the treatment and interpretation of results. *Prerequisite Psy 101-102.* 3 hours—3 credits.

PSY 401 CONTEMPORARY THEORY IN PSYCHOLOGY—Consideration of the historical roots of present day psychology. The main emphasis will be on the development of scientific psychology, but some of the advances in applied psychology will also be included. *Prerequisite Psy 101-102.* 3 hours—3 credits.

PSY 411 APPLIED PSYCHOLOGY—A study of the applications of psychology in human relations; motivation of the individual, learning and memory, human efficiency, individual and sex differences, personality; applications in areas of communication and the professions. *Prerequisite Psy 101-102.* 3 hours—3 credits.

PSY 421—INTRODUCTION TO CLINICAL PSYCHOLOGY—A course designed to acquaint students with the techniques and problems dealt with in Clinical Psychology. The course will include the following topics: the nature of the clinical interview, evaluation of psychological tests of intelligence and personality, and the use of projective tests. *Prerequisites Psy 322 and permission of the instructor.* 3 hours—3 credits.

PSY 499 SENIOR SEMINAR IN PSYCHOLOGY—Designed to give the advanced student who plans to do graduate work an opportunity to study intensively some of the contemporary issues in psychology. *Prerequisite Psy 343 and permission of the instructor.* 3 credits.

Department of Sociology

Assistant Professors: Lehr, Whitmoyer

Sociology is the study of man's relation to man; an attempt to account for the origin, growth, structure, and activities of human society. It is, furthermore, a study of human beings as members of a variety of societal groups. It employs the methods of modern science in examining and classifying the phenomena arising out of human associations, and in discovering the tendencies, uniformities, and laws operating in society.

Sociology is thus fundamental to a full understanding of the political and economic institutions which are studied specifically and in detail by other divisions of the social sciences. It also undertakes the study of certain institutions, groups, and phenomena, less specifically approached by other fields of knowledge: the family, the community, religious, racial, nationality, and class groups; the prevention and treatment of delinquency and crime; the nature and functioning of custom, and "public opinion"; the character, causes, and effects of social change.

Major Requirements: The following courses are required in the major areas of sociology and psychology—Psy 101-2, So 151, So 152, Psy 321, Psy 343, So 203, So 306, Psy 332 (12 hrs. of Sociology electives), (4 hrs. of Psychology electives). The minimum number of semester hours in Sociology and Psychology required for the degree, thirty-seven (37).

Suggested Program—B.A. in Sociology and Psychology

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Foreign Language	3	3
Mathematics	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or 207-8	3	3
Biology 101-2	4	4
Sociology 151	3	–
Sociology 152	–	3
Foreign Language	3	3
European History	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
Literature	2	2
History 303-4	3	3
Psychology 321	3	–
Psychology 343	3	–
Sociology 203	3	–
Sociology 306	–	3
Humanities 251 or Music 211	–	2
Dept. Electives (Sociology)	–	4

Senior Year	1st Sem.	2nd Sem.
Philosophy 451	–	3
Philosophy 452	3	–
Psychology 332	–	3
Political Science 352	–	3
Electives (Sociology)	4	4
Electives (Psychology)	6	–
General Electives	2	2

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

So 151 Introduction to Sociology—A study of the group living of people, including a consideration of how social changes affect their culture and institutions. 3 hours—3 credits.

So 152 Social Problems—Consideration of the major problems of modern society, including crime, alcoholism, mental derangement, recreation, racial tensions, and others; an attempt to reveal the nature of the problems and to acquaint the student with what society is doing and can do about them. *Prerequisite So 151 (Not open to students who have completed more than fifteen semester hours in social studies).* 3 hours—3 credits.

Educational Sociology (See Ed 204).

So 203 Introduction to Anthropology—An introductory survey to the four main branches of anthropology—bio-anthropology, archeology, ethnology, and linguistics. 3 hours—3 credits.

So 304 Cultural Anthropology—A survey of the principles and findings of anthropology in comparative studies of several contemporary cultural areas of the world; an evaluation of problems of personality formation in human relations, cultural disintegration, and cultural stability. *Prerequisite So 203.* 3 hours—3 credits.

So 306 Intergroup Relations—An analysis of intergroup relations involving racial, ethnic, and religious minorities in the United States and selected regions of the world. *Prerequisite So 151.* 3 hours—3 credits.

Social Psychology (See Psy 331).

So 403 THE FAMILY—A comparative study of different family patterns; a functional approach to questions related to courtship, engagement, and the early years of married life. *Prerequisite So 151.* 3 hours—3 credits.

So 404 CRIMINOLOGY—A consideration primarily of the causes of criminality, modern trends in the detection of law violators, the development of penal institutions, court procedures and programs designed to reform the criminal. *Prerequisite So 151.* 3 hours—3 credits. Offered 1964–65.

So 405 RURAL SOCIOLOGY—A consideration of the rural environment and population, rural social organization, and social processes in rural society. *Prerequisite So 151.* 3 hours—3 credits.

So 406 COMMUNITY ORGANIZATION—A study of the structure and function of the community together with an analysis of existing individual and group relationships; emphasis upon intra-group and inter-group processes in the evaluation of community needs and the development of community resources. *Prerequisite So 151* (*Open to only sociology majors*). 3 hours—3 credits. Offered 1963–64.

Composite Courses

Certain programs of study preparing students for technical and professional careers, the preparation for which is not expressly covered by majors in the various departments, are presented in this section.

Engineering—B.A. and B.S. Degrees

Major Requirements: A total of 103 semester hours plus the two-year engineering program at Pennsylvania State University.

Curricula which Elizabethtown students will be qualified to enter at Pennsylvania State include aeronautical, civil, electrical, industrial, mechanical, and sanitary engineering. In order to be eligible for admission into the Pennsylvania State University, the student must be recommended by Elizabethtown College.

Upon successful completion of the five-year program, the student will receive a Bachelor of Arts degree from Elizabethtown College and a Bachelor of Science degree from The Pennsylvania State University.

Suggested Programs

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Drawing 114-15	2	2
English 101-2*	3	3
History 101-2	2	2
Mathematics 103	4	–
Mathematics 164	–	4
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Business Adm. 201	3	–
Bible 102	–	2
English 201-2 or 207-8	3	3
English 321	–	2
Foreign Language**	3	3
Mathematics 201-2	4	4
Physics 203-4	4	4
Physical Education	1	–

Junior Year	1st Sem.	2nd Sem.
Bible 101	2	–
History 304 or 305	–	3
Mathematics 311	3	–
Physics 205	4	–
Physics 305-6	3	3
General Psychology 101-2	2	2
Foreign Language**	3	3
Physical Education	–	1
Electives	–	6

The fourth and fifth years must be satisfactorily completed in the field of engineering at Pennsylvania State University.

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of Socio-Humanities as an elective. The elective in this case must be in the humanities.

** German is recommended.

Medical Technology—B.S. Degree

Major Requirements: A total of 100 semester hours plus a fourth year in an accredited school of training in Medical Technology.

Suggested Programs

Freshman Year	1st Sem.	2nd Sem.
Biology 101-2	4	4
Chemistry 101-2	4	4
English 101-2	3	3
Mathematics 153	3	–
Mathematics 154	–	3
General Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Chemistry 201-2	4	4
Chemistry 203-4	1	1
Biology 205	4	–
Biology 256	–	4
English 201-2 or 207-8	3	3
History 101-2	2	2
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Chemistry 301	5	–
History and/or Political Science (including Hi 303-4 or Ps 352)	3	6
Philosophy 351	3	–
Philosophy 352	–	3
Physics 201-2	4	4
Chemistry 322	–	4

The fourth year is to be completed in an accredited school of training in Medical Technology. Upon the completion of such a course and the successful passing of the Registry Examination for medical technologists the Bachelor of Science degree will be conferred by Elizabethtown College.

Elizabethtown College is affiliated with the York Hospital, St. Joseph's Hospital of Lancaster, and the Lancaster General Hospital in its program leading to the Bachelor of Science degree with a major in Medical Technology.

Nursing—B.S. Degree

Major Requirements: A total of 66 semester hours plus the successful completion of a three-year nursing course at an approved nurses' training school.

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Biology 101-2	4	4
English 101-2	3	3
History 101-2	2	2
Mathematics 151 or 153	3	–
General Psychology 101-2	2	2
Sociology 151	–	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Chemistry 111-12	4	4
English 201-2 or 207-8	3	3
History and/or Political Science (including Hi 303-4 or Ps 352)	3	3
Philosophy 351 or 352	3	
Social Science	3	3
Electives	–	3

Upon the satisfactory completion of the two-year college course and the three-year nursing course at an approved nurses' training school, and the passing of a state board examination for the R.N. degree, the student will be eligible for the Bachelor of Science degree from Elizabethtown College.

Curriculum for Church Leadership Training

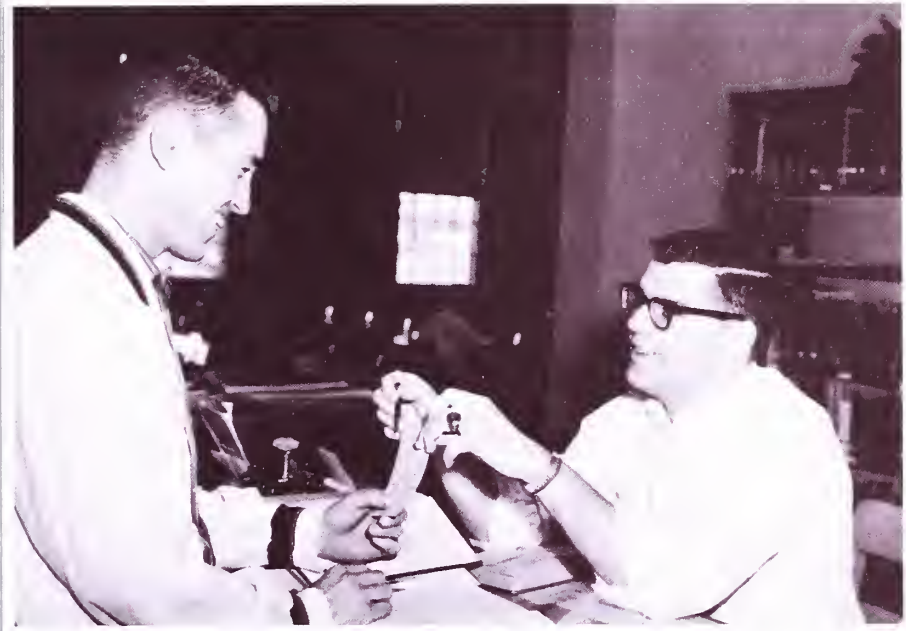
Upon completion of the following program, a student is eligible to receive from the Christian Education Commission of the General Brotherhood Board of the Church of the Brethren a College Level Leadership Training Certificate:

Required Courses:	Hours
Bible	6
General Psychology	3
Educational Psychology	3
Principles and Administration of Christian Education	3
Visual Education	2

Elective Courses:

Six semester hours chosen from among the following courses: Philosophy of Religion, Philosophy of the Christian Religion, Great Christian Doctrines, History of the Christian Church, History of the Church of the Brethren, Child Psychology, Social Psychology, Psychology of Religion, History of Religion.

One year's experience in church school work, while in college, under the supervision of capable leadership.



Student Life

The total college experience is more than the academic pursuits. Life on the campus includes the living experiences, participation in the various social and cultural events, and a balanced program of extracurricular activities, including sports, drama, speech and musical groups.

All students are members of the Student Association. Elected representatives serve the interests of the student body through an active student government. The chief governing body of the Association is the Student Senate.

Student Senate

The Student Senate is responsible for coordinating all the activities and interests of the student body. The Senate meets, at least, once a month during the academic year. All sessions are open to members of the student association. The Rudder, the college handbook, is prepared by the Senate outlining the major campus events for the coming year as well as the major student clubs and organizations which students prepare themselves for leadership in an extra-curricular way.

Student Center Board

One of the newest buildings on the campus is the A. C. Baugher Student Center. The Student Senate has delegated a major portion of its social and recreational programs to the Student Center Board. The Board helps to determine policy regarding the use of the building and helps to supervise the game room, student lounges, and other facilities within the Student Center building.

The Student Center has facilities for swimming, bowling, intramural sports,

conferences, movies, and many other activities. The center contains the bookstore, post office, Jay's Nest, Campus Radio Station and offices for student publications and student government. The Center becomes the hub of the many activities and interests of a student's life.

Committees on Men's and Women's Affairs

The Student Association, through the Student Senate, elects a Committee on Men's Affairs and a Committee on Women's Affairs. These two committees plan and promote the various activities of the dormitories. They assist the Senate in freshman orientation, set up dormitory councils and help to determine and to interpret the college rules and regulations within the dormitories.

Student Christian Organizations

The ECCA, Elizabethtown College Christian Association, serves the total religious interests of the campus. Throughout the year ECCA provides an ecumenical religious expression for all the students who seek a unified religious experience. The ECCA Cabinet tries to provide and to coordinate the many religious interests of students who live on campus.

Many denominational groups have regular meetings such as the Brethren Student Fellowship, Lutheran Student Association, the Canterbury Club, Methodist Students, Westminster Fellowship and others. These denominational groups, through the ECCA, coordinate their interests on campus and promote their denominational interests with the churches in the area.

Students who plan for full-time church vocations are invited to associate with a student organization known as Eta Gamma Kappa. They provide programs and projects of interests to those who plan to enter a religious ministry.

Campus Clubs

There are various clubs organized to give expression to the many interests of students.

Sock and Buskin—Dramatics
Society for Advancement of Management—Business
Pennsylvania State Education Association—Teachers
Eta Phi Sigma—Forensics
French Club—French students
German Club—German students
Political Science Club—Political Science students
Psychology Club—Psychology students
Phi Beta Chi—Science students
Varsity E Club—Sports Letter Winners
Young Republicans—All students
Young Democrats—All students
Abraxas—Men's Honor Society
Sigma Lambda Sigma—Women's Honor Society
Council for Exceptional Children—Special Education students

College Publications and Communications

The Etownian—The college newspaper is published semi-monthly giving news about campus life. The newspaper is designed to inform students about campus affairs and to reflect student views. A monthly Alumni edition is prepared from the campus papers and is sent to alumni and others interested in the college. College students receive their copies free.

Conestogan—Each spring a college yearbook is prepared to record the highlights on the campus during the year. All students receive a copy as part of their student fees.

WWEC—From 6 p.m. until midnight students are able to turn to 740 on their radio dial and receive the latest campus and world events. WWEC is a student operated station serving students on the campus.

The Rudder—Each year the Student Senate prepares a student handbook giving information concerning college life, college rules and regulations, orientation for new students and general information needed at all times.

The Elm—About once each year various bits of creative writing are gathered together and published. It is known as "The Elm."

Musical Organizations

The choral union, concert band, string orchestra, concert choir, chapel choir, women's chorus, men's glee club and other smaller groups are opportunities for interested students to serve the college in a musical way.

Further information may be obtained by referring to the pages in the catalog under "Instruction on Music Program."

Athletics

While sports interests are secondary to academic pursuits the college offers a wide variety of athletic interests for men and women.

Fall sports include:	
Soccer	Men
Cross Country	Men
Hockey	Women
Winter sports include:	
Basketball	Men
Wrestling	Men
Basketball	Women
Spring sports include:	
Baseball	Men
Tennis	Men
Tennis	Women

In addition an intramural program includes football, basketball, volleyball, tennis, wrestling, bowling and swimming.

Student Financial Aid

The college offers several types of financial assistance to students who have special abilities and who prove financial need. Students must apply for academic scholarship, grant-in-aid, loans, and self-help assistance.

In order to qualify for financial help a student must meet the following minimum requirements:

1. Student must be enrolled for full-time studies.
2. Students must meet the required academic standards of the college.
3. Students must agree to operate on an approved personal budget. (Students who operate automobiles for personal use are not considered in need of financial assistance.)
4. Student agrees to co-operate in maintaining the ideals of the college and to help set a high standard of conduct for other students.

A Financial Aid Committee co-ordinates and awards all student assistance. The Parent Confidential Statement is used in determining financial need.

The Student Aid Committee reserves the right at any time to review and revise any student aid agreement in light of additional or new information not known to the committee at the time the agreement was made.

Academic Scholarship

All scholarship candidates must take the Scholastic Aptitude Test of the College Entrance Examination Board. Applications for scholarships should be presented on a form from the College Admissions Office. Holders of scholarships must maintain a cumulative scholastic average indicated by the following minimum quality point ratios in order to be eligible for the renewal of said scholarships; at the end of the Freshman year 2.50; at the end of the Sophomore year 2.75; at the end of the Junior year 3.00.

Among funds available for scholarship purposes are those known as the Charles Troxell Royer Memorial, and the Student Volunteer Missionary Scholarship. The College is one of fifteen institutions which Pennsylvania Power and Light Scholarship winners may attend (information on which may be obtained from company offices in Allentown, Pennsylvania). A Nursing Education Scholarship is available through the Nursing Education Council of Bethany Hospital, Chicago, Illinois.

Scholarships are awarded by a Financial Aid Committee. For current announcements and additional information write the Director of Admissions, Elizabethtown College.

"Dean's Privilege" scholarships are available for those students not receiving other scholarship aid who have a quality point ratio of 3.00 at the end of the Sophomore year. Possible recipients must be recommended to the Dean of Instruction by their department head.

Students withdrawing from Elizabethtown College to attend other institutions and then returning to Elizabethtown College at a later date forfeit any scholarship commitment held in their previous attendance here.

No scholarship aid will be given unless applied for on or before a date set by the Office of Admissions.

Loans

Loans are available to worthy students. The National Defense Student Loan Fund has made it possible for many students to receive help through the efforts of the Federal Government. The Assured Education Plan allows students to borrow money on a monthly payment basis spreading the payments over many months. There are several smaller loan funds available.

Information concerning loans may be obtained by contacting the Treasurer of the College.

Grants-In-Aid

Students who have special abilities are given financial help in the form of grants for a particular skill; i.e., athletics, music, journalism. These grants are given only upon the recommendation of the Head of the Department involved. In addition to the special ability the student must meet the minimum requirements stated above.

Self-Help

The College provides a limited number of self-help assignments for worthy students. The dollar value of the assignment depends upon the nature of the work involved. Students who have been regularly enrolled are given first opportunity for these assignments. Applications may be procured by contacting the Student Personnel Office.

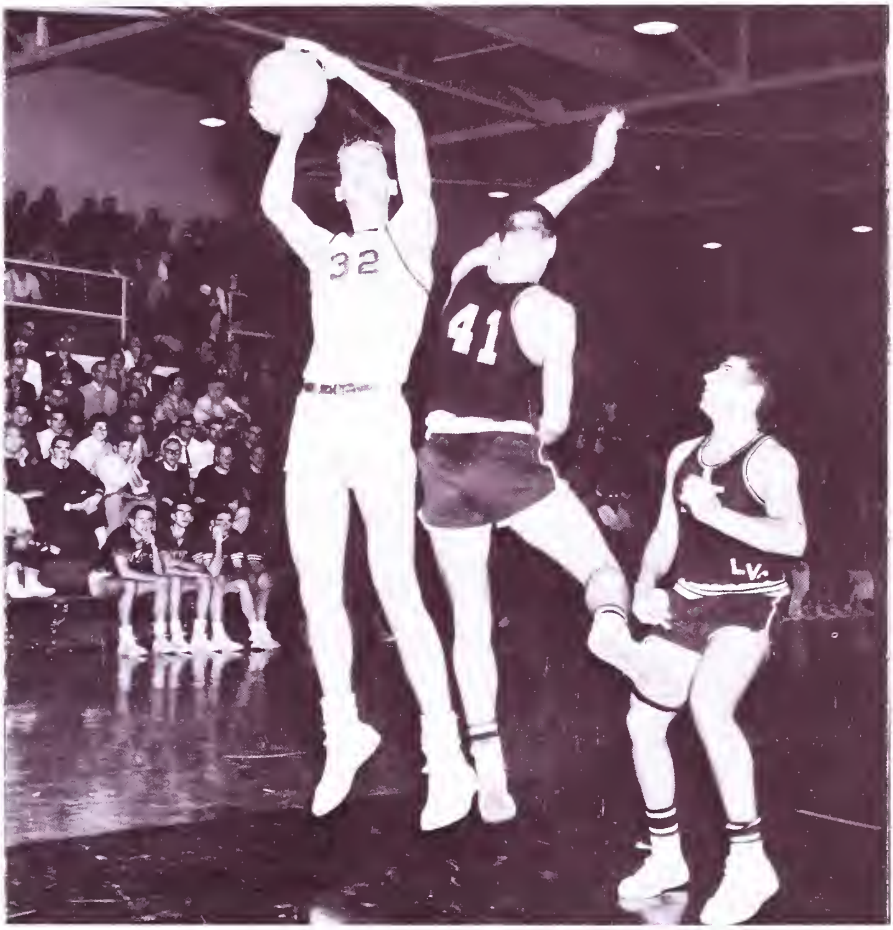
Student Health

The college maintains an infirmary on the campus staffed by three registered nurses. A local physician is on call and available for consultation as needed. Students may select their physician from a list of qualified doctors within the city, if they desire.

Students entering college are required to take a T.B. X-ray during the first semester or to present evidence of having an X-ray within the past six months. Likewise, Juniors are required to renew their X-ray examination.

Immunization for influenza is given each October or early November by the Health Services. Students are requested to avail themselves of this program to protect themselves from the flu and to protect everyone who lives and studies on the campus.

The college provides for students a minimum sickness and accident insurance program. The accident insurance program is mandatory unless exemption request is properly signed and returned to the college before September 1. However, for a minimum fee, a total of $750.00 coverage is provided and all students are urged to avail themselves of the sickness benefit as well as the mandatory accident program.



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N. S. SELLERS ..... *Vice Chairman*
HORACE E. RAFFENSPERGER ..... *Secretary*
EARL H. KURTZ ..... *Treasurer*

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ROY E. MCAULEY, *President of the College .... Member Ex-Officio*

Honorary Trustees

JOSEPH N. CASSEL ..... Collegeville, Pa.
JOHN M. MILLER ..... Lititz, Pa. '05
ELMER L. ESBENSHADE ..... Lancaster, Pa.

Eastern Pennsylvania

Term Expires Dec. 31		*Elizabethtown College Class of*	
1963	NORMAN K. MUSSER	'07	Columbia, Pa.
1963	MARGARET M. CASSEL	'38	Lititz, Pa.
1963	MARTHA A. BUCHER	'42	Quarryville, Pa.
1964	S. CLYDE WEAVER	'23	East Petersburg, Pa.
1964	HOWARD A. MERKEY	'11	Manheim, Pa.
1964	NORMAN L. BOWERS		Landisville, Pa.
1965	F. S. CARPER	'24	Palmyra, Pa.
1965	JOSEPH W. KETTERING	'23	Elizabethtown, Pa.

(Honorary D.C.S. 1958)

Southern Pennsylvania

1963	CHESTER H. ROYER	'23	York, Pa.
1964	CYRUS G. BUCHER	'36	Biglerville, Pa.
1965	N. S. SELLERS		Lineboro, Maryland
1965	JACOB L. MILLER		York, Pa.

Nominated by the Alumni Association

1963	ESTHER Z. PAPSON	'36	Lebanon, Pa.
1964	CARL G. HERR	'38	Lancaster, Pa.
1965	JAY H. ESHLEMAN	'32	Germantown, Pa.

(Honorary Doctorate SC.D. 1956)

Nominated by the Board of Trustees

1963	S. S. Wenger	'27	Lancaster, Pa.
1964	Paul M. Grubb	'24	Elizabethtown, Pa.
1964	J. Aldus Rinehart	'24	West Englewood, N. J.
1964	D. C. Stambaugh		Lancaster, Pa.
1964	Eli H. Stoltzfus		Phoenixville, Pa.
1965	John G. Hershey	'16	Lititz, Pa.
1965	I. Wayne Keller	'30	Lancaster, Pa.

(Honorary DSC 1954)

1965	Horace E. Raffensperger	'21	Elizabethtown, Pa.

(Honorary Ped. D. 1958)

1965	John F. Sprenkel	York, Pa.

The Board holds two regular meetings each year; one near spring Commencement and the other on the second Saturday in October.

Officers of Administration

Roy E. McAuley, B.S., B.D., M.A., Ed.D.—
President of the College
Jacob E. Hershman, B.S., M.Ed., Ed.D.—*Dean of the College*
Edward L. Crill, A.B., M.Ed.—*Dean of Students*
Earl H. Kurtz, B.S., M.A.—*Treasurer*
James L. M. Yeingst, A.B.—*Director of Public Relations*

Kenneth L. Bowers, A.B.—*Director of Publications*
Clarence G. Enterline, B.S., M.S.—*Alumni Secretary*
Jerald L. Garland, A.B.—*Assistant in Admissions*
D. Paul Greene, A.B., B.D.—*Director of Admissions*
Vera R. Hackman, A.B., M.A.—*Dean of Women*
Wilbur E. Weaver, B.S., M.Ed.—*Manager of the College Store*
Robert S. Young—*Administrative Associate*

Elizabeth F. Bruckhart, B.S., M.S.—*Director of Residence and Assistant in Student Personnel*
Hazel M. Neff, B.S., M.S.—*Director of Residence and Assistant to the Dean of Women*
Mary M. Cox—*Director of Residence*
Ethel L. Heaton—*Director of Residence*

Ira D. Brandt—*Assistant in the Student Center*
Walter E. Brown—*Superintendent of Building and Grounds*
Martha A. Farver—*Office Manager*
J. Robert Hollinger—*Bookkeeper*
Doris O. Lewis—*Secretary to the President*

Faculty and Staff

BESSIE D. APGAR, *Professor of Biology*
A.B., Muskingum College; M.S., University of Pittsburgh; Ph.D., University of Pennsylvania.

CHARLES S. APGAR, *Professor of Biology, Head, Department of Biology*
B.S., University of Pittsburgh; M.S., University of Pittsburgh; Ph.D., University of Pittsburgh.

WILLIAM C. BAILEY, *Assistant Professor of Music*
B.S., Mansfield State College; M.Mus., Syracuse University; The Pennsylvania State University.

JAMES M. BERKEBILE, *Professor of Chemistry, Director, Teachers for West Africa Program*
A.B., Manchester College; A.M., Ph.D., The Ohio State University.

*EDGAR T. BITTING, *Associate Professor of Business, Head, Department of Business*
B.S., Elizabethtown College; M.B.A., University of Pennsylvania.

RICHARD W. BOMBERGER, *Professor of English, Head, Department of English*
A.B., Franklin and Marshall College; A.M., The University of Virginia.

IRVIN L. BOSSLER, *Associate Professor of Mathematics, Head, Department of Mathematics*
B.S., Ursinus College; M.S., in Mathematics, Purdue University, Rensselaer Polytechnic Institute.

KENNETH L. BOWERS, *Director of Publications, Instructor in English*
A.B., Elizabethtown College; The Pennsylvania State University.

ROSALIE ERB BOWERS, *Assistant to the Librarian with the rank of Instructor*
A.B., Elizabethtown College.

ELIZABETH BRUCKHART, *Director of Residence and Assistant in Student Personnel with the rank of Assistant Professor*
B.A., Manchester College; M.S., Indiana University.

*ROBERT A. BYERLY, *Professor of Bible, Head, Department of Bible and Philosophy, Director of Religious Activities*
A.B., Oklahoma A. & M. College; B.O., Bethany Biblical Seminary; A.M., Butler University; Garrett Biblical Institute; S.T.D., Temple University.

*R. LEE BYERS, *Assistant Professor of Engineering, Director of Engineering Programs*
A.B., Juniata College; B.S. in Chemical Engineering, Carnegie Institute of Technology; M.S. in Chemical Engineering, University of Rochester.

CARL J. CAMPBELL, *Assistant Professor of English*
A.B., Franklin and Marshall College; M.A., The University of Pennsylvania.

ANNA M. CARPER, *Librarian, with the rank of Associate Professor*
A.B., Elizabethtown College; M.S., Columbia University; University of Pennsylvania.

RONALD M. COPELAND, *Instructor in Business*
B.B.A., University of Massachusetts; M.S., The Pennsylvania State University.

EDWARD L. CRILL, *Dean of Students with the rank of Associate Professor*
A.B., Manchester College; M.Ed., Johns Hopkins University.

JANE LOUISE CUSTER, *Instructor in Mathematics*
B.S., Juniata College; M.A., Temple University.

HUBERT M. CUSTER, *Associate Professor of Physics, Head, Department of Physics*
B.S. in E.E., Carnegie Institute of Technology; M.S., Franklin and Marshall College.

J. THOMAS DWYER, *Assistant Professor of English*
A.B., University of Pennsylvania; M.A., University of Pennsylvania.

ELINOR EASTLACK, *Assistant Professor of Business Education*
B.S., The Pennsylvania State University; M.Ed., The Pennsylvania State University; The University of Southern California; The University of Colorado; University of Hawaii; University of Mexico; Franklin and Marshall College.

EUGENE R. EISENBISE, *Assistant Professor of Education, Director of Audio-Visual Services*
B.S., McPherson College; M.A., The University of Wyoming; Kansas State College at Emporia.

RUSSELL E. EISENBISE, *Instructor in Languages and Mathematics*
A.B., McPherson College; Temple University.

CLARENCE G. ENTERLINE, *Alumni Secretary and Director of Placement with the rank of Associate Professor*
B.S., Albright College; M.S., University of Pennsylvania; University of Pennsylvania; University of New Hampshire; University of Maine; The Pennsylvania State University.

MILDRED H. ENTERLINE, *Associate Professor of English*
A.B., Ursinus College; M.A., Northwestern University; University of Pennsylvania; New York University; University of Maine; University of New Hampshire; The Pennsylvania State University.

NEVIN W. FISHER, *Professor of Music, Head, Department of Music*
Graduate, Blue Ridge College, Department of Music-Piano, Voice; Peabody Conservatory of Music, Teachers' Certificate; B.M., Eastman School of Music, University of Rochester; M.Music, Northwestern University; Columbia University; Juilliard School of Music.

VIRGINIA S. FISHER, *Director of Religious Education, Tri-District Office, Church of the Brethren, Assistant Professor of Bible and Philosophy*
A.B., George Washington University; M.R.E., Lancaster Theological Seminary.

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A.B., Elizabethtown College; A.M., Columbia University; Teachers' College Professional Diploma, Columbia University.

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A.B., Lebanon Valley College; School Library Certification, Temple University; French Institute, The Pennsylvania State University; University of Pennsylvania.

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B.S., Juniata College; M.Ed., The Pennsylvania State University; Further Graduate Study, The Pennsylvania State University.

DONALD E. KOONTZ, *Assistant Professor of Mathematics*
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B.S., Elizabethtown College; Temple University; Wharton School of Business of the University of Pennsylvania; M.A., New York University.

DAVID I. LASKY, *Associate Professor of Psychology, Head, Department of Psychology, Director of Testing Services*
A.B., Temple University; A.M., Temple University; Ph.D., Temple University.

R. BRUCE LEHR, *Assistant Professor of Sociology*
A.B., Bucknell University; M.A., Mexico City College.

HENRY M. LIBHART, *Assistant Professor of English, Director of Freshman Composition*
A.B., Franklin & Marshall College; M.A., Equivalent Certificate, Commonwealth of Pennsylvania.

JASON D. LINDOWER, JR., *Assistant to the Treasurer with the rank of Assistant Professor.*
B.S., Manchester College; M.B.A., Indiana University.

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B.S., McPherson College; B.D., Bethany Seminary; M.A., University of Omaha; Ed.D., University of Denver.

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A.B., The King's College; B.D., Eastern Baptist Seminary; Th.M., Eastern Baptist Seminary; M.A., University of Pennsylvania; University of Pennsylvania.

ROLLIN E. PEPPER, *Associate Professor of Biology*
A.B., Earlham College; M.S., Syracuse University; Ph.D., University of Michigan.

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JOBIE E. RILEY, *Assistant Professor of English and Director of Forensics*
B.A., Manchester College; B.D., Bethany Seminary; M.A., Northwestern University.

SHU-CHIN SHEN, *Assistant Professor of Business*
A.B., Tsing Hua University; M.A., Columbia University; New York University.

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B.S., Bridgewater College; H.M., Northwestern University; Ph.D., The Florida State University.

JACK SLATER, *Cataloguing Librarian with the rank of Assistant Professor*
B.S., City College of New York; M.L.S., University of Michigan

DONALD P. SMITH, *Assistant Professor of Physical Education*
B.S., University of Mississippi; University of Mississippi.

ARMON C. SNOWDEN, *Assistant Professor of Bible and Philosophy*
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GLEN W. SNOWDEN, *Assistant Professor of Bible and Philosophy*
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O. F. STAMBAUGH, *Professor of Chemistry, Head, Department of Chemistry, Director of Summer Sessions*
B.S., Lebanon Valley College; M.S., The Pennsylvania State University; Ph.D., The Pennsylvania State University.

STANLEY T. SUTPHIN, *Instructor in Bible and Philosophy*
A.B., La Verne College; B.D., Bethany Biblical Seminary; S.T.D., Pacific School of Religion.

ESTHER K. SWICK, *Assistant Professor of English*
A.B., Theil College; M.A., Columbia University.

JOHN SWICK, *Assistant Professor of Physics*
B.S., University of Pittsburgh; M.S. in E.E., University of Pennsylvania.

WILBUR E. WEAVER, *Manager of the College Store with the rank of Assistant Professor*
B.S., Elizabethtown College; M.Ed., Temple University.

JOEL D. WEST, *Assistant Professor of Psychology*
A.B., Manchester College; B.D., Bethany Biblical Seminary; M.A., De Paul University.

PAUL E. WHITMOYER, *Assistant Professor of Sociology*
B.S., Pennsylvania State University; B.D., Gettysburg Theological Seminary; M.Ed., Temple University.

DAVID P. WILLOUGHBY, *Assistant Professor of Music, Director of Choral and Instrumental Music*
B.S., Lebanon Valley College; M.E., Miami University of Ohio.
OWEN LEE WRIGHT, *Assistant Professor of Physical Education*
B.A., Bridgewater College; M.S., The University of Illinois.
NORMAN L. WYKOFF, *Assistant Professor of Mathematics*
A.B., Hanover College; M.A., University of Louisville.
JAMES L. M. YEINGST, *Director of Public Relations, Assistant Professor of English*
A.B., Elizabethtown College; The Pennsylvania State University.
ROBERT S. YOUNG, *Administrative Associate*
Elizabethtown College; Lebanon Valley College; University of Pennsylvania.
JOSEPH P. ZACCANO, JR., *Assistant Professor of History*
A.B., Dickinson College; M.A., Ph.D., University of Pittsburgh.
CARL W. ZEIGLER, *Associate Professor of Bible*
A.B., Elizabethtown College; B.D., United Theological Seminary; D.D., Elizabethtown College; Bethany Seminary; University of Pennsylvania; Union Theological Seminary.
* On leave 1963–64

LECTURERS

JOSEPH BROWN, C.P.A., *Accounting*
ANTONIO FELICE, Ph.D., *Psychology*
HENRY F. GINGRICH, LL.B., *Business and Law*
JOHN JONES, Graduate of Banking, *Business*
RAY KAUFFMAN, M.Mus., *Music*
ALADAR F. KISH, M.S., *Economics*
ETHEL M. B. WENGER, A.M., *Education*

ELIZABETHTOWN COLLEGE — EMERITI

IRA R. HERR, *Professor Emeritus of Physical Education*
A.B., Franklin and Marshall College; University of Pennsylvania; Temple University.
J. Z. HERR, *Emeritus Treasurer and Business Manager*
B.E., Elizabethtown College; Columbia University.
MARTHA MARTIN, *Professor Emeritus of Bible*
A.B., Elizabethtown College; Bethany Biblical Seminary; Biblical Seminary of New York; University of Pennsylvania.
E. G. MEYER, *Professor Emeritus of Music*
Pd.B., Elizabethtown College; A.B., Elizabethtown College; A.M., Columbia University.
GERTRUDE ROYER MEYER, *Professor Emeritus of Piano*
Graduate in Music, Western Maryland College; Columbia University; Peabody Conservatory of Music.
FREDERICK C. NEUMANN, *Professor Emeritus of Language*
Ph.D. (Language), University of Vienna; Ph.D. (Political Science), University of Vienna; University of Prague; University of Bristol; University of Richmond.
MARY B. REBER, *Professor Emeritus of Art*
B.E., Elizabethtown College; Albright College; Columbia University.
RALPH W. SCHLOSSER, *President Emeritus*
Pd.B., Elizabethtown College; A.B., Ursinus College; A.M., Columbia University; Litt.D., Ursinus College; Bethany Seminary; Columbia University; University of Pennsylvania.

Elizabethtown College Alumni Association

The Alumni Association numbers approximately 4,500. Eighteen chapters stand ready to serve alumni in these areas and provide an opportunity for alumni to get involved in activities.

The purpose of the Association is to promote the interests and welfare of Elizabethtown College, to encourage closer fellowship among the alumni and former students, and to establish closer contact and better understanding between the college and its graduates and former students.

All persons who have graduated from Elizabethtown College or who have attended a period of one semester or the equivalent thereof are eligible for membership in the Association.

Chapters as of May, 1963 are indicated below. Alumni in their respective areas are urged to keep in touch with the officers of their chapters.

Elizabethtown College Alumni Chapters
1963

Altoona—State College

President ..... Rev. Carl Geary, '55
431 W. Second St., Williamsburg, Pa.

Vice President ..... J. Kenneth Kreider, '61
39 Woodsdale Park, State College, Pa.

Secretary ..... Mrs. W. W. Starck, '50
Port Matilda, Pa.

Baltimore

President ..... Curtis W. Dubble, '49
18 Chase St., Westminster, Md.

Vice President ..... Daniel C. Haledman, '47
R. D. #1, Roger Ave., Ellicot City, Md.

Secretary ..... Robert M. Graham
626 Longview Dr., Baltimore 28, Md.

Treasurer ..... Leon E. Henise, '50
850 Edgedale Road, Towson 4, Maryland

Boston

President ..... Dr. John D. Trimmer, '26
277 Triangle Street, Amherst, Mass.

Secretary-Treasurer ... Dr. John G. Kuhns, '17
503 Boysltown Street, Newton 59, Mass.

Cumberland Valley

President ..... Ralph H. Clopper, '27
R. D. #6, Carlisle, Pa.

Vice President ..... Mildred M. Heckman, '26
R. D. #1, St. Thomas, Pa.

Secretary ..... Ruth J. Witter, '56
R. D. #2, Mercersburg, Pa.

Treasurer ..... L. Anna Schwenk, '22
325 S. Hanover Street, Carlisle, Pa.

Eastern Shore (Md.)

President ..... David Myers, '52
2501 Cleveland Avenue, Claymont, Delaware

Vice President ..... Henry R. Hoerner, '55
Grendon Farms, Wilmington 8, Delaware

Secretary-Treasurer ... Linda E. Hollinger, '62
79 E. Cleveland Ave., Apt. 2, Newark, Delaware

Florida

President ..... Rev. J. William Stoneback, '57
1721 Harmon Avenue, Winter Park, Florida

Secretary-Treasurer ... Homer Reber, '33
Box 620, 210 So. Hampton Street, Orlando, Florida

Harrisburg

President ..... Miss Frances Bishop, '54
1262 Main Street, Steelton, Pa.

Vice President ..... Dr. Ben G. Musser, '43
350 Hillside Dr., New Cumberland, Pa.

Secretary ..... Mrs. G. Book Roth, '43
276 South West Street, Carlisle, Pa.

Treasurer ..... Robert A. Greenawalt, '49
231 E. Main Street, Mechanicsburg, Pa.

Johnstown-Pittsburgh

President ..... Mrs. John Roudabush, '33
611 Schrader Avenue, Johnstown, Pa.

Vice President ..... Mrs. Zona Mae Hare, '61
First Street, Cairnbrook, Pa.

Secretary-Treasurer ... Mrs. Howard Gray, '32
620 Gromley Avenue, Carnegie, Pa.

Juniata

President ..... Mrs. Earl S. Kipp, '31
R. D. #1, Newport, Pa.

Vice President ..... Luke H. Buffenmyer, '37
35 N. Third Street, Newport, Pa.

Secretary-Treasurer ... Mrs. John Tennis, '27
R. D. #1, McAlisterville, Pa.

Lancaster

President ..... Clifford Huffman, '47
1716 Wheatland Avenue, Lancaster, Pa.

Vice President ..... Alan Whitacre, '53
5849 Lemon Street, East Petersburg, Pa.

Secretary ..... Janet Trimmer, '56
18 S. Custer Avenue, New Holland, Pa.

Treasurer ..... Glenn Y. Forney, '54
234 Park Avenue, Mt. Joy, Pa.

Lebanon

President ..... William L. Gould, '39
310 South 4th Street, Lebanon, Pa.

1st Vice President .... John C. Picking, '57
202 E. Cherry Street, Palmyra, Pa.

2nd Vice President ... Ammon B. Meyer, '33
R. D. #1, Fredericksburg, Pa.

Secretary-Treasurer ... Mrs. Gerald H. Seiler, '57
Bethel, Pa.

Lehigh Valley

President ..... William Ellsworth, '53
313-E 10th Street, Northampton, Pa.

Vice President	Mrs. William Ellsworth, '54 313-E 10th Street, Northampton, Pa.
Secretary	Mrs. Richard O. Wenger, '59 782 Mohawk Street, Allentown, Pa.
Treasurer	William Withers, '50 318 North 15th Street, Allentown, Pa.
North Jersey	
President	Dr. James Miller, '55 8 Oxford Lane, Madison, N. J.
Vice President	Dr. M. Alexander Glasmire, '37 23 Oakridge Road, West Orange, N. J.
Secretary-Treasurer ...	Miss Marguerite Brown, '59 33 Morris Avenue, Summit, N. J.
South Jersey	
President	Robert Goudie, '57 10 Wedgewood Place, Gibbsboro, N. J.
Vice President	Miss Madeline Brightbill, '59 Market and Maple Streets, Gloucester, N. J.
Secretary	Jo Ann Robinson, '62 302 Lake Ave., Pitman, N. J.
Treasurer	Lorraine Jamieson, '35 P. O. Box 558, Camden, N. J.
Philadelphia	
President	Norman R. Bitterman, '60 208 Summit Avenue, Fort Washington, Pa.
Vice President	Jon R. Singer, '62 8 Ridley Avenue, Aldan, Pa.
Secretary	Nancy Sheaffer, '53 110 Susquehanna Avenue, Lansdale, Pa.
Schuylkill Valley	
President	Robert G. Balthaser, '58 Shartlesville, Pa.
Vice President	Harold K. Risser, '38 Mohrsville, Pa.
Secretary	Mrs. Robert G. Balthaser, '60 Shartlesville, Pa.
Treasurer	Mrs. Harold K. Risser, '38 Mohrsville, Pa.
Washington, D. C.	
President	John E. Eichelberger, '30 R. D. #1, Box 141, Oakton, Virginia
Vice President	Edwin A. Ankeny, '58 Box 109, Germantown, Maryland
Secretary-Treasurer ...	Mrs. Edwin Ankeny Box 109, Germantown, Maryland
York	
President	Rev. Earl Ziegler, '51 Brodbecks, Pa.
Vice President	Dr. Galen Jones, '40 448 Atlantic Avenue, York, Pa.
Secretary-Treasurer ...	Jeanne (Leber) Merritt, '60 2310 Breezewood Road, York, Pa.

Official College Calendar

1963-64

Academic Year

September	12	Thursday ..... Faculty Report
September	12, 13, 14	Thursday through Saturday ..... Faculty Sessions
September	15	Sunday ..... New Students Arrive
September	16	Monday ..... New Student Orientation and Registration
September	17	Tuesday ..... Upperclassman Registration
September	18	Wednesday ..... Classes Begin
October	19	Saturday ..... Homecoming Day
November	13	Wednesday ..... Founders' Day
November	26	Tuesday (5:00 p.m.) ..... Thanksgiving Recess Begins
December	2	Monday (7:40 a.m.) ..... Classes Resume
December	20	Friday (5:00 p.m.) ..... Christmas Recess Begins
January	6	Monday (7:40 a.m.) ..... Classes Resume
January	20–29	Monday through Wednesday ... First Semester Examinations
January	29	Wednesday ..... First Semester Ends—Recess
February	2	Sunday ..... Mid-Year Commencement
February	3–4	Monday and Tuesday ..... Second Semester Registration
February	5	Wednesday ..... Classes Begin
March	20	Friday (5:00 p.m.) ..... Spring Vacation Begins
March	31	Tuesday (7:40 a.m.) ..... Spring Vacation Ends
May	11	Saturday ..... May Day
May	20–29	Wednesday through Friday .. Second Semester Examinations
May	29	Friday ..... Second Semester Ends
May	30	Saturday ..... Alumni Day
May	31	Sunday ..... Baccalaureate and Commencement

Summer Session - 1964

June	15	Monday ..... Summer Session I Begins
July	4	Saturday ..... Independence Day (No Classes)
July	17	Friday ..... Summer Session I Ends
July	20	Monday ..... Summer Session II Begins
August	21	Friday ..... Summer Session II Ends
August	21	Friday ..... Summer Commencement

Official Calendar

1964-65

Academic Year

September	10	Thursday ..... Faculty Report
September	10, 11, 12	Thursday through Saturday ..... Faculty Sessions
September	13	Sunday ..... New Students Arrive
September	14	Monday ..... New Students Orientation and Registration
September	16	Wednesday ..... Classes Begin
October	24	Saturday ..... Homecoming Day
November	13	Friday ..... Founders' Day
November	24	Tuesday (5:00 p.m.) ..... Thanksgiving Recess Begins
November	30	Monday (7:40 a.m.) ..... Classes Resume
December	18	Friday (5:00 p.m.) ..... Christmas Recess Begins
anuary	4	Monday (7:40 a.m.) ..... Classes Resume
anuary	18–27	Monday through Wednesday ... First Semester Examinations
anuary	27	Wednesday ..... First Semester Ends—Recess
anuary	31	Sunday ..... Mid-Year Commencement
ebruary	1–2	Monday and Tuesday ..... Second Semester Registration
ebruary	3	Wednesday ..... Classes Begin
pril	9	Friday (5:00 p.m.) ..... Spring Vacation Begins
pril	20	Tuesday (7:40 a.m.) ..... Classes Resume
ay	9	Saturday ..... May Day
ay	18–28	Wednesday through Friday .. Second Semester Examinations
ay	28	Friday ..... Second Semester Ends
ay	29	Saturday ..... Alumni Day
ay	30	Sunday ..... Baccalaureate and Commencement

Summer Session - 1965

une	14	Monday ..... Summer Sessions I Begins
uly	5	Monday ..... Independence Day (No Classes)
uly	16	Friday ..... Summer Session I Ends
uly	19	Monday ..... Summer Session II Begins
ugust	20	Friday ..... Summer Session II Ends
ugust	20	Friday ..... Summer Commencement

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DIRECTOR OF ADMISSIONS
ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

I am interested in Elizabethtown College.

- ☐ **Send me an Application for Admission form.**
- ☐ **Arrange an interview for me on the campus.**
- ☐ **Send me information about honor scholarships.**

Name .....

Street ..... **City & State** .....

High School ..... **Date of Graduation** .....

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High School ..... **Date of Graduation** .....

PLACE
STAMP
HERE

OFFICE OF ADMISSIONS

ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

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ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

Correspondence

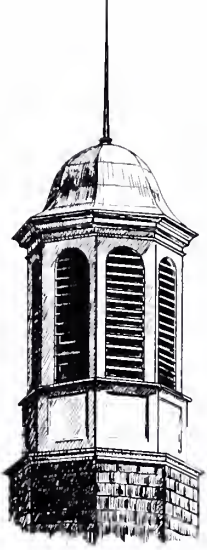
All correspondence should be addressed to Elizabethtown College, Elizabethtown, Pennsylvania. Correspondence dealing with a particular matter should be specifically directed as indicated below.

Academic Matters	Dean of the College Alpha Hall
Admission	Director of Admissions Alpha Hall
Alumni Activities	Alumni Secretary Alpha Hall
Athletic Activities	Director of Athletics Baugher Student Center
Business Matters	Treasurer's Office Alpha Hall
Financial Assistance	Director of Admissions Alpha Hall
General Information	Office of Public Relations Alpha Hall
Gifts or Bequests Information	Office of Public Relations Alpha Hall
Living Accommodations	Dean of Men Baugher Student Center or Dean of Women Baugher Student Center
Summer Sessions	Director of Summer Sessions Alpha Hall

Elizabethtown College

Bulletin

1965-66



The Liberal Arts

ELIZABETHTOWN COLLEGE subscribes to the Liberal Arts philosophy of learning, which seeks to deepen and broaden man's knowledge of his heritage and the world in which he lives.

A Liberal Arts education is concerned with the molding of the whole man: his appreciation of the beauty of the fine arts through literature and music, his understanding of the physical world through science, his insight to the dynamics of society through the social sciences, his role in the moral universe through philosophy and religion.

The Liberal Arts sharpen the student's ability to think clearly, to reason soundly, to communicate effectively, to measure human values incisively.

Reaching back to encompass the gathered knowledge of the ages, the Liberal Arts are alive and vibrant in the modern world. Their mastery gives new meaning to life.

Elizabethtown College Bulletin

Published Quarterly

Sixty-fifth Catalog Number

Announcement of Courses 1965–66

Vol. LII *August, 1965* *No. 1*

ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

Published quarterly by Elizabethtown College. Second-class postage paid at Elizabethtown, Pennsylvania 17022.

The College: Its History and Purpose

SHORTLY before the dawn of the current century, a group of earnest men, all members of the Church of the Brethren, strode purposefully across the broad acres of farm land that were to become the campus of Elizabethtown College.

On a slight hill they stopped, looked over the surrounding countryside, and then quietly agreed that this was the site for which they were looking. The hill on which they stood became the location for Alpha Hall, the first building of the new college.

A charter for the college was received from the Commonwealth of Pennsylvania on September 23, 1899. Classes officially began in November of the following year.

Supported at first by individual contributions, the College in time became the responsibility of the Eastern and Southern Pennsylvania Districts of the Church of the Brethren. The Church officially assumed the responsibility for operating the College in January, 1919.

With the advancing years, the College grew in the size of its enrollment, the extent of its physical facilities, and the quality of its curriculum.

Formal accreditation was granted in 1921 by the Pennsylvania Department of Public Instruction and in 1948 by the Middle States Association of Colleges and Secondary Schools.

Elizabethtown College has taken its place in the circle of American higher education. It holds membership in the Association of American Colleges and the American Council on Education. It has been approved by the American Association of University Women.

"Harmonious Development"

In the words of the founding fathers, as recorded in the original charter, the purpose of the College is "to give such harmonious development to the physical, mental, and moral powers of both sexes as will best fit them for the duties of life and promote their spiritual interests."

Elizabethtown College is, in every aspect of its program, a Christian institution. Its facilities are open to all without discrimination.

Deeply rooted in the philosophy of the College are the beliefs that a clean body and a clear mind are basic requirements for a Christian life, that men and women can serve God through any vocation which serves the needs of mankind, that life in college requires hard work and firmness of purpose, that genuine culture is the result of knowledge coupled with Christian character.

Broadly stated, the purpose of Elizabethtown College is to train students through a balanced program of Christian living, sound academic studies, physical fitness, and social insight. All aspects of life on the campus are included in this program.

The Campus

IN many respects, the personality of a college is reflected by its campus, which provides the physical setting for its various activities: academic, spiritual, social.

Students at Elizabethtown College live and work on a 75-acre campus, which includes a broad dell. a lake, and numerous trees. The general setting is one of quiet, natural beauty.

The main buildings, strategically located in relation to each other, are designed in modern colonial architecture, which blends well with the surrounding landscape.

A. C. Baugher Student Center was completed in the fall of 1962. Built around the alumni auditorium-gymnasium, this modern structure houses the college post office, the campus bookstore, a snack bar, bowling alleys, swimming pool, lounges and conference rooms of various sizes. It is the center for student extra-curricular activities.

Alpha Hall, the oldest building, is the administrative center of the campus. Facilities located here include the business office, student admissions, student records and services, public relations, and various administrative offices.

Fairview Residence for Women is one of the smaller women's dormitories with facilities for housing 56 students.

Gibble Science Hall, recently enlarged by the addition of a new wing, provides well-equipped laboratories for students in chemistry, biology, and physics. In addition, there are several well-designed classrooms and the large Brinser Lecture Hall.

The College Infirmary was renovated to provide separate campus medical facilities for both men and women. Registered nurses make up the staff of the infirmary and are on call at all times during the academic year.

Elizabeth Myer Hall, a women's dormitory, one of the more recent additions to the campus, has living accommodations for 132 students. The College Dining Room, which can seat as many as 360 comfortably, is located in one wing of the building.

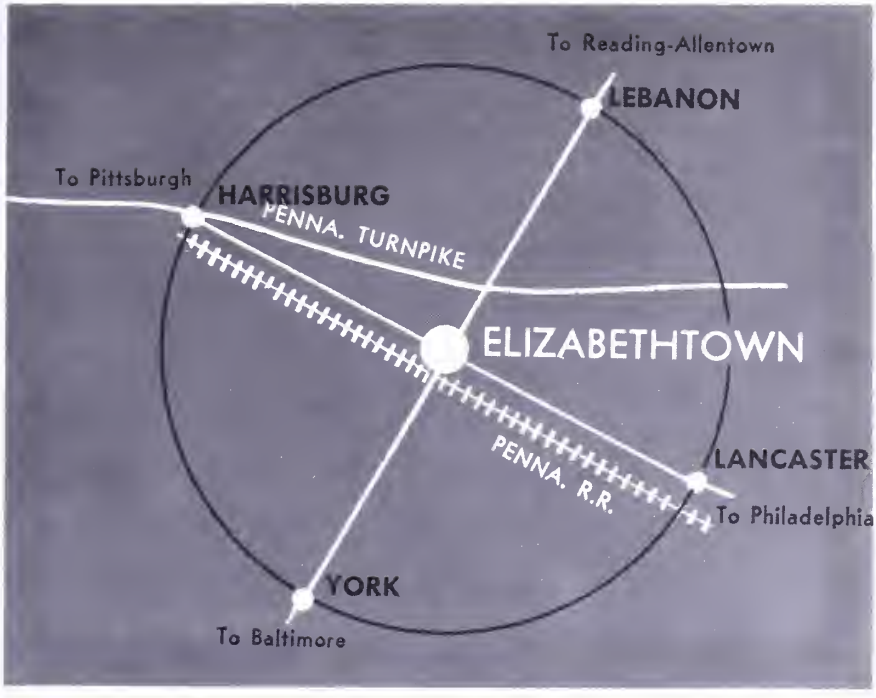
H. K. Ober Hall, a men's dormitory completed in 1960, is the largest building on the campus. It has pleasant living facilities for 230 students, including lounges, laundry rooms, game rooms.

Rider Hall, located near the center of the campus, is used as a classroom building.

The Mary Royer Residence for women was completed and occupied in the fall of 1962. This modern dormitory includes lounges and laundry facilities, and provides complete housing for 130 women students.

Zug Memorial Library is centrally located for easy access by students. It contains approximately 35,000 volumes of reference material. In addition, there are approximately 250 selected periodicals, a microfilm scanner, and record-playing facilities available.

Other buildings on the campus include West Hall which houses the Department of Music; North, South and Center Halls, which house classrooms and faculty offices; and the Business Education Building. There are also several small residences on the periphery of the campus used as honors houses for students.



Location

THE 75-acre Elizabethtown College campus is located in Elizabethtown, a residential community in Lancaster County with a population of slightly under 7,000.

The surrounding area contains some of the most desirable agricultural country in the Nation as well as prosperous industrial centers producing a wide variety of commodities, including steel, aluminum, building materials, appliances, and timepieces.

Elizabethtown is situated in the midst of several of the larger communities in southeastern Pennsylvania, including Lancaster, Lebanon, Harrisburg, York, and Reading. It is approximately a hundred miles from such metropolitan centers as Philadelphia, Baltimore, and Washington, D. C.

Elizabethtown has complete facilities for shopping, banking, and other personal services.

Access to Elizabethtown can be had directly by the Pennsylvania Railroad and U. S. Route 230. An interchange of the Pennsylvania Turnpike is available at Highspire, approximately ten miles from Elizabethtown on Route 230. The Harrisburg-York Airport and the Lancaster Airport are within a 35-minute drive of the campus.

The Academic Program

THE information in the College Bulletin is the student's guide for the planning of his courses for the fulfillment of his degree requirements. Faculty advisors and administrative counselors work with him for each semester's registration. However, the student is expected to be familiar with the information in the bulletin and is personally responsible for arranging a program meeting all requirements for his degree.

Admission to the College

From the young men and women who apply for admission to Elizabethtown College, those whose records of character, scholarship, and health suggest that they are fitted to do acceptable college work are selected.

Certain guiding principles are used as applications are evaluated:

1. That the student be a graduate of a senior high school accredited by the Regional Accrediting Agency or by the Department of Education of the state in which he lives.
2. That he be recommended by his high school principal and/or guidance counselor.
3. That he complete a satisfactory College Preparatory Course. If a student has not completed such a course but is deemed, through test scores or other means of evaluating his potential, qualified for entrance, he may be admitted.
4. That he take the Scholastic Aptitude Test and the following achievement tests:
   a. A Writing Sample
   b. A Mathematics, Level I, Test
   c. A foreign language test—French, German, Spanish or Russian—if the curriculum in college demands a language and if the student wishes to continue in the language that he has had in high school. This test will help to determine whether the student should be placed in beginning, intermediate or the advanced class.

These tests are given by the College Entrance Examination Board. Contact your high school guidance counselor to arrange for the exams.

The student wishing to enter Elizabethtown College should write to the Director of Admissions for an application blank and advisably for an interview on campus unless he has been interviewed by a College representative off-campus.

After admission and before entrance into college, a student must supply a physician's report of good health in a form sent to him by the Director of Admissions.

Early Admissions Plan

In a sincere effort to provide an opportunity for academic acceleration by superior students, Elizabethtown College has initiated a program under which carefully selected pupils may begin their higher education immediately after completing the junior year in high school.

Students enrolled under this program become full-fledged freshmen at the College and, upon successful completion of the freshman year, are granted a high school diploma in addition to the college credits earned. The program has the full cooperation and support of the Pennsylvania Department of Public Instruction.

All degree programs at the College are available to these selected students, who are expected to exhibit the mental and emotional maturity necessary to adjust to the general program of the College. Following enrollment, students

receive close personal counseling by selected faculty members.

All applicants for the accelerated admission program are carefully screened on a highly individualized basis. Particular attention is given to the following personality factors: mental ability, scholastic achievement, social and physical maturity, and personal motivation.

To be accepted, students must have completed the eleventh year in an accredited high school program and rank in the upper percentiles of their high school class.

Scholastic Aptitude Test scores and other test results are given weighty consideration.

The opinions and predictions of the student's high school principal and guidance counselor are of prime importance, as are those of College's department head in the particular discipline elected by the applicant.

The complete approval of the student's parents, high school principal, and guidance counselor is mandatory before the student can be accepted. Others participating in the selection process are the Dean of Instruction of Elizabethtown College, the College's Director of Admissions, and the Director of Testing at the College.

In addition to the indicated statistical data, the selection process includes a conference with the student by College officers in the presence of the parents, principal, and guidance counselor.

Any student interested in applying for this accelerated program should first discuss the matter thoroughly with the high school guidance counselor and then write to the Director of Admissions at Elizabethtown College for an application form.

Admission to Advanced Standing

Students may be admitted to advanced standing up to the beginning of the senior year on the following basis:

By EXAMINATION. Examinations are given only to those who have teaching experience or practical work in the subjects in which the examination is sought, or to those who have pursued such courses under approved instruction. These tests will be graded passing or failing. Neither letter grades nor quality points will be given. The cost of these examinations is $15.00 per semester hour credit.

ADVANCED PLACEMENT PROGRAM (CEEB). Elizabethtown College participates in the Advanced Placement Program of the College Entrance Examination Board. With the approval of the department concerned and the Dean of Instruction, advanced placement and credit are granted to students who perform satisfactorily in college-level courses in secondary school and on the Advanced Placement Examinations. Although advanced placement credit may be allowed, such credit does not count toward the 128 semester-hour requirement for graduation.

EXAMINATION FOR CERTIFICATION. One exception to the procedure as stated above involves the Business Education students who are required to have typing and shorthand on their transcripts. These students are privileged to take a proficiency examination upon payment of a fee of $5.00. The student who passes the examination is given advanced placement and in addition, the appropriate semester-hour credit with the understanding that he must fulfill the graduation requirement of 128 semester hours over and above the advanced placement credits.

FROM OTHER COLLEGES. The transfer student must present a secondary school record together with an official transcript indicating work completed

at and honorable dismissal from any college or all colleges which he has attended.

For any student entering Elizabethtown College by transfer, a minimum of 96 semester hours will be required for graduation if he has attended another college for one year, 64 semester hours if for two years, and 32 semester hours if for three years.

All students who transfer to Elizabethtown College are required to pass a competency examination in English. Students who fail to meet the minimum standards are required to enroll in En 101 English Composition and will not be granted credit for a similar course in transfer.

Veterans Entering Elizabethtown College

Elizabethtown College is approved for the training of veterans under Public Laws 550 (Korean), 16 and 894 (Rehabilitation Acts), and 634 (War Orphans).

All veterans who are admitted under the provisions of one of the public laws must furnish the treasurer of the college with a certificate of eligibility and entitlement on the day of registration or before. This certificate is procured from the Regional Office of the Veterans Administration. Veterans are urged to apply for educational benefits two months before they expect to enter college.

The veteran is personally responsible to the college for the payment of fees on regularly scheduled dates for payment.

Handicapped Students at Elizabethtown College

Elizabethtown College admits a limited number of handicapped students. Such students are asked to give evidence of satisfactory arrangements for care and movement to and from classes and about the campus before final acceptance will be granted. The College cannot assume any responsibility for classroom or dormitory adjustments, or provide special tutoring or other assistance. A physician's personal statement concerning physical capabilities and limitations of the student must be presented.

Zug Memorial Library

The Curricula

ELIZABETHTOWN College offers courses leading to three degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Education.

A student may select as a major in the Bachelor of Arts program any of the following: Bible and Philosophy, English, Foreign Language, History and Political Science, Mathematics, Social Studies, or Sociology and Psychology.

In the Bachelor of Science program he may choose Accounting, Biology, Business Administration, Chemistry, Mathematics, Medical Technology, Nursing, Pre-medical sciences, or Physics.

The student pursuing the Bachelor of Science degree in Education may major in Business Education, Elementary Education, Secondary Education, or Music Education.

Requirements for the three degrees with the various majors are set forth on pages 20 through 79 in this bulletin.

In all curricula in which a two-year language requirement is indicated, the completion of the second college year will meet the requirement. A student having completed two years of a language in high school will receive college credit if he enrolls for the first year of the same language only if he is assigned to the class as a result of his placement examination score.

The Student's Program

The entering freshman is admitted into one of the degree programs indicated above. The work of his first two years is prescribed to a large extent to ensure him a foundation in general education and enable him to select his field of concentration wisely.

In most curricula a wide range of electives is offered in the junior and senior years. The student will take the prescribed courses outlined for each consecutive year. The College is not responsible to arrange the scheduling of courses out of sequence. To change from one curriculum to another, the student must secure permission from the Academic Dean.

Since the completion of 128 semester hours of work is required for a degree, a student's program must include an average of 16 semester hours for each of the eight semesters of a four year program. Normally he may carry up to 18 semester hours of work in any given semester.

With his faculty adviser he arranges each semester's program to include the courses outlined in the catalog for the curriculum which he is pursuing. His electives are chosen in consultation with his adviser.

A student who has achieved a cumulative quality point-credit ratio of 3.0 or above may carry up to 20 semester hours credit in a semester and may complete his work in a minimum of three years and twenty weeks. The maximum number of semester hours any student may carry in a given semester is 20. For each semester hour above 18 for which a student is enrolled in a given semester, an additional fee is charged.

Any student taking 10 hours or more of credit per semester at Elizabethtown College is considered a full time student and will pay full tuition and fees. Any student taking 9 hours or less per semester will pay the regular semester hour rate, plus essential fees. He will receive a library card entitling him to full use of the library facilities.

Absences and Withdrawals

It is the responsibility of each student to attend classes regularly and punctually. Absences caused by ill health, death in the immediate family, participation in intercollegiate events, field trips, and other college assigned and approved activities are cleared through the Office of the Dean of Instruction. A student desiring make-up privileges for an absence must present legitimate reason to the professor and/or the Dean of Instruction.

At the beginning of each course, the professor indicates his absence policies to the students in his classes. Excessive absence and tardiness are handled administratively. A student who may have been dismissed from a course for excessive absences may be reinstated by permission of the Dean of Instruction.

The administrative attitude toward class absence indicates that the academically superior students should be allowed some flexibility in class attendance, and the academically inferior students should be under more rigid class attendance demands.

Absences immediately preceding and immediately following cataloged vacations will be counted double.

A student who is absent when an examination is given must secure permission from the Dean of Instruction in order to take the examination. For a make-up examination which he is permitted to take, he will be charged $1.00 per semester hour except in the case of final examinations for which he will be charged $2.00 per semester hour.

Withdrawal from college is initiated through the Office of the Dean of Student Personnel Services. For purposes of billing and responsibility for class attendance, the date of notification of the Dean of Student Personnel Services is his official date of withdrawal. Withdrawal without notification calls for no refund in tuition. Failure to comply with this policy may result in loss of the privilege of readmission to the College, and forfeiture of the right to a clear transcript of credits and honorable dismissal.

Credits, Grades, and Quality Points

Credit is indicated in terms of the semester hour. Each semester hour unit signifies work completed in one fifty-minute recitation or two or more fifty-minute laboratory periods per week for a semester of sixteen to eighteen weeks or in an equivalent amount of time in summer sessions.

Grades are reported for work as follows: A, excellent; B, good; C, satisfactory; D, poor; F, failing; W, withdrawal, with the grades earned at the time of withdrawal from class. (All class withdrawals must be approved by the adviser and the Dean of Instruction. Withdrawal without approval effects automatically a grade of F); I, work incomplete. If a grade of I is not removed within one semester after the close of a course, the grade recorded on the permanent record automatically becomes an F.

Quality points are given for credits as follows: for a grade of A, 4 per semester hour; B, 3 per semester hour; C, 2 per semester hour; D, 1 per semester hour; F, no quality points.

Academic Requirements and Class Standing

The academic success of a student is measured in terms of grades and quality points. Although a grade of D is passing, a grade of C is considered the lowest satisfactory grade. When a student falls below a cumulative quality point-credit ratio of 2.0, which represents an average grade of C, he is in academic difficulty and will therefore be permitted to carry a maximum of

15 semester hours in a given semester so that he may improve his situation. Only when his cumulative ratio has again reached 2.0 will he be permitted to carry 16 to 18 semester hours' work in a given semester. When a student has a quality point deficiency, the Dean of Instruction will call him for a conference.

If at the end of his first semester in college the student has a cumulative quality point-credit ratio below 1.5, at the end of his second semester below 1.8, at the end of his second year below 1.9, or at the end of his third year below 2.0, he is placed on academic probation. A student on academic probation may be requested to withdraw from college anytime the administration so decides after a consideration of his over-all situation.

The student's class standing is determined on the basis of the number of credits he has earned. After earning 30 credits, he is considered a sophomore; with 60 credits he is a junior; with 90 credits he is a senior.

Except in cases in which the curriculum outlines in the catalog such courses during the junior and senior years, or by special permission of the Academic Dean, a student who has earned 70 credits will not be given semester hour credit or quality points for courses numbered below 200; once he has earned 108 credits, he will not be given semester hour credit or quality points for courses numbered below 300. He may, however, take these courses to fulfill specific graduation requirements.

Prizes

Each year a number of individuals, organizations, and corporations confer various awards and prizes for specific accomplishments in divergent areas. Among the established prizes are The Royer Bible Prize, the Weaver Biology Prize, the Butterbaugh Chemistry Prize, the Kettering Accounting Prize, the Raffensperger Journalism Prize, the Dr. John Robert Gregg Memorial Award, the Pennsylvania Institute of Certified Public Accounting Award, the Wall Street Journal Award, and others.

Information concerning these and other prizes and awards may be obtained from the Dean of the College or heads of departments involved.

Dean's List and Graduation with Honors

A student having earned an average grade of B+, a quality point-credit ratio of 3.50 or above, is regarded by the college as having performed with distinction.

Students earning a 3.50 or better quality point ratio in any given semester are placed on the "Dean's List of Honor Students."

At the time of his graduation, a student who has achieved a cumulative quality point-credit ratio of 3.50 will be graduated with cum laude distinction; with a ratio of 3.75, his honor will be magna cum laude; with a ratio of 3.90, he will receive summa cum laude distinction. A transfer student will receive honors only if he has earned 60 semester hours credit at Elizabethtown College, if his total quality point-credit ratio is at least 3.50 and if his ratio at Elizabethtown College is at least 3.50. Having met these requirements, he will receive the honor indicated by his ratio on his Elizabethtown College work alone.

Graduation from Elizabethtown College

To be graduated from Elizabethtown College, the student must obtain 128 semester hours credit, or in the case of engineering, medical technology, and nursing majors the number indicated in the course outline, and all of the specific

courses indicated, together with the requirements for his major field. No more than ten semester hours' credit in Workshop courses is applicable towards a degree; a Workshop in any area will be counted no more than two times.

Requirements will be governed by the catalog dated four years prior to an individual's graduation, or by the catalog in effect at the time of his graduation, if he so chooses.

In order for the student to meet graduation requirements, he must have earned a minimum of 32 semester hours in classes on the Elizabethtown College campus and a minimum of 32 semester hours in courses numbered 300 and above from Elizabethtown College.

Every graduate is required to have been in attendance in college for a minimum of three years and thirty weeks unless he has earned a cumulative quality point-credit ratio of at least 3.0, in which case he may complete his work in three years and twenty weeks. Any deviation from this procedure must have the approval of the Committee on Administration.

Elizabethtown College will graduate only those students who have met the moral and financial obligations incurred while they have been in pursuit of their college courses. The completion of the required number of semester hours does not in itself constitute eligibility for graduation.

Degrees will not be granted in absentia without special permission by the Administrative Committee.

It is the responsibility of the candidate for a degree in February, May, or August to make formal application for the degree in writing to the Dean of Instruction at least eight weeks before graduation.

In order to be eligible for graduation, students must have a credit quality point ratio of at least 2.00. Students transferring from other colleges must have a ratio of at least 2.00 in courses pursued in residence at Elizabethtown College.

All students enrolled at Elizabethtown College are guests of the College. The College at any time at its own discretion may terminate the enrollment of a student.

Special Programs

Cooperative Program of Undergraduate Study Abroad

THE six colleges associated with the Church of the Brethren are cooperating in a junior year of study at Marburg, West Germany. Courses are offered in such areas as literature, history, religion, philosophy, international relations, political science, economics, cultural anthropology, and possibly art and music history. Most of the program in any given year is taught by an American professor from one of the cooperating colleges. However, it is possible for at least some of the students to take one or more courses at the university, the official name of which is Philipps-Universitat, Marburg/Lahn.

Students interested in this program must have had at least two years of college level study in the German language. Further provision for orientation to the German language, as well as to the culture generally, precedes the opening of the program each fall. In addition to an adequate knowledge of the language, the qualifications include intellectual capacity, seriousness of purpose, good character, demonstrated potential for social adjustment, a basic understanding of the United States and the host country, good health, and initiative.

The program accommodates approximately 25 students each year. Elizabethtown College has a quota of four. Further information may be obtained from the Dean of Instruction.

Merrill-Palmer Institute

The Merrill-Palmer Institute of Human Development located in Detroit, Michigan, has approved Elizabethtown College as a cooperating institution in its undergraduate program in the behavioral sciences.

The Merrill-Palmer Institute, founded in 1920, is a non-degree granting institution of higher education. Its program includes teaching, research, and community services.

The co-educational body is composed of both graduates and undergraduates from colleges and universities throughout the United States and abroad.

In addition to pursuing advanced theory courses, the Merrill-Palmer undergraduate aids in conducting research and has the opportunity to meet and work with some of the outstanding individuals in the field of behavioral sciences today.

To be eligible, the student must be entering either the second semester of his junior year or the first semester of his senior year.

At the Institute, he will register for 15–17 semester-hours, which will be accepted for credit when he returns to Elizabethtown the following semester.

Although the program is intended primarily for students in the behavioral sciences, other students having an interest will be considered.

Teachers for West Africa Program

Elizabethtown College, under a grant from the Hershey Chocolate Corporation, selects a limited number of applicants for teaching posts in the secondary schools of Ghana and Western Nigeria. This grant is a concrete expression of interest in bettering relations between the people of Africa and the United States through a vital cooperation at the secondary school education level.

Elizabethtown College selects teachers with strong teaching fields in chemistry, physics, biology, mathematics, English, French, industrial arts, and business administration. They are recruited from the seniors and alumni of colleges

and universities of high academic standing. The teacher enters into a contract with the employing African government, political sub-division, Ministry of Education, or individual school. The Program makes it possible for the teacher to be placed on the field for this employment by providing the transportation and shipping costs for the teacher employed.

Further information can be obtained by contacting the Director, Dr. James M. Berkebile, Elizabethtown College.

Harrisburg Area Center for Higher Education

In cooperation with the Pennsylvania State University, Temple University, the University of Pennsylvania, and Lebanon Valley College, Elizabethtown College offers accredited college level courses in Harrisburg through the Harrisburg Area Center for Higher Education. Late afternoon, evening, and Saturday classes are available. Students interested in course offerings should contact the Center Office, 2891 North Second St., Duncan Hall, Harrisburg, Pennsylavnia, telephone CEdar 8-9694.

Summer Study

Elizabethtown College conducts two five-week summer sessions.

Summer sessions are organized for students who for urgent reasons wish to devote their summers to study. In each term a student may enroll for two three-semester-hour courses. It is possible for a student to earn twelve semester hours of credit toward a degree by attending both sessions. In three full summers a student may complete the equivalent of a year's work.

Students interested in course offerings should contact the Director of Summer Sessions, Elizabethtown College, Elizabethtown, Pennsylvania.

Part-Time Campus Courses

Teachers-in-service and others who can qualify for entrance into college may enroll for courses for which there may be a sufficient demand to justify the organization of a class.

Evening classes are organized for persons who find it possible to carry on further preparation during their spare time.

A program of adult education is provided for those who wish to take courses for their practical or cultural value. Courses in any of the areas listed in this catalog will be offered upon demand.

Anyone interested in any of the above plans should write to the Dean of Instruction.

Placement Services for Students and Alumni

Of vital concern to Elizabethtown College, is the placement of its graduates in positions where they can prove most effective to themselves and to their employers. To this end a corps of workers is available for consultation; this corps consists of teachers, department heads, and the placement director who co-ordinates the placement services.

These services are free and are available to underclassmen, seniors, and alumni. Services are available throughout the calendar year. They relate to permanent as well as part-time and summer jobs. They relate to business, industry, the teaching profession and government.

Student Life and Values

The great potential of a student body leads to great expectations on campus and off campus—wherever students may be. These expectations include academic excellence, physical fitness, spiritual growth, and social competence.

The goal of education should be—as a famous educator notes—to acquire the tools and vocabulary of learning, to establish habits of good taste and proper discrimination, and to liberate the mind and spirit from inhibiting prejudices that prevent the full use of the student's capacities. Education should make the student averse to dishonesty, insincerity, and vulgarity.

Both men and women students need to be concerned about values. Men students should respect and promote standards of honesty, sincerity, and good breeding in all interpersonal relationships. Women are in a more strategic position to insist upon high standards of both thought and action. Women should be carriers of values esthetic and spiritual. They should communicate to their children, husbands, and acquaintances the excitement and satisfaction that may be derived from intellectual pursuits. Experience in insisting upon high standards of both thought and action should be greatly enhanced by living on a college campus. Such insistence clears the college image, orients new students, and develops competence in all areas.

Guided by these great expectations, faculty, deans, and counselors need to focus the attention of students on the standards that are necessary to enlightened living, how these standards are formed, and how they are transmitted from older to younger persons. In this process the more mature student may be of great assistance to the younger student.

In spite of the confusion in our present society about how to achieve these goals, Elizabethtown College takes its stand as a Christian institution expecting high standards of its students. The revolution in freedom of expression in our society shall not be used as the rationalization for its existence. Rights and privileges carry with them corresponding responsibilities. Accordingly, the college should help both men and women students to set and maintain satisfactory standards of belief and behavior in areas vital to their future existence. Elizabethtown College recognizes that although the goal of education should be the same for both men and women, the personal interests and long-term goals of men and women students are possibly different. This is in the nature of life and our society and should be a basic consideration in guiding students.

Satisfactory standards of belief and behavior are expressed in the welcoming letter which the President sends to prospective students:

> *". . . you will be choosing a fully accredited, church-owned, coeducational liberal arts institution with a beautiful campus located in a residential town of about 6500 population. Your classes will be taught by dedicated and well-qualified professors. While the academic program of the college is considered most important, you will find a number of extracurricular, social, and athletic offerings. These offerings are not based upon fraternities, sororities or their equivalents, but upon the considerations of the entire student body.*
>
> *"As a part of the Christian orientation of the college, you will, in the process of your program, complete certain basic academic courses in Bible. Students also are required to attend one non-sectarian chapel service per week, wherein outstanding ministers and laymen of various denominations speak.*
>
> *"Those enrolled at Elizabethtown College are expected, at all*

times, to be acceptable representatives of the college. The use of beverage alcohol in any form in any amount at any time or place is not tolerated. Smoking by men is restricted to certain areas. We prefer that women who smoke not apply for admission since restrictions are most severe and confining. Since it is our desire to hold to a minimum all factors which might jeopardize the academic success of the new student, freshmen are not allowed to have automobiles on campus or in Elizabethtown unless parents certify that such are needed for daily commuting between home and campus. Parents who thus certify accept full academic and moral responsibility for the uses of said automobiles. Moral and ethical conduct, as judged by Christian standards, is assumed to be the foundation of all campus relationships.

"We are happy that our graduates are in demand for responsible positions in business, teaching, homemaking, professional and graduate schools, and other areas. It is our purpose to maintain an excellent reputation academically and morally!"

Curricula

Bachelor of Arts

The course in Liberal Arts has for its objective a comprehension of the meaning of life and the development of an appreciation of its beauty. It emphasizes cultural values.

The curriculum is also planned as a prerequisite for later specialization in graduate study. The Liberal Arts degree is generally considered as preparation for librarians, journalists, lawyers, social workers, teachers and others.

Pre-Ministerial

Those who are preparing for the ministry should investigate the entrance requirements of the Seminary in which they plan to secure their professional training. These will probably include the usual college requirements, with emphasis on English, Speech, Greek and Philosophy as well as various phases of Bible study. Such are the demands, however, on the present-day clergyman that there are few subjects in the curriculum that would not contribute to his efficiency and he should seek at least an introductory course in as many fields as possible.

Pre-Legal

On March 15, 1928, the Supreme Court of Pennsylvania approved the recommendation of the State Board of Law Examiners to place Elizabethtown College upon the list of colleges, degrees from which are accepted for registration in lieu of preliminary examination.

The College recommends that the student who plans to enter the legal profession should follow a course leading to the Bachelor of Arts degree in History and Political Science. This will make possible the election of courses in economics, sociology, history, English, speech and other subjects.

It is also possible for graduates with the Bachelor of Science degree, particularly with a major in Business Administration, to meet all the requirements for entrance to law schools. Such students should select their elective courses carefully in order to obtain as broad a background as possible.

Social Work

Students who desire to qualify as professional social workers should complete a four-year college course, and should have in addition at least one year of postgraduate work in an approved school of social work. Preferably, they should take the full two-year course in a school of social work, leading to the master's degree.

Students who wish to prepare for this field of study should follow the program as outlined for the Bachelor of Arts degree with a major in sociology and psychology.

Preparation for Journalism

The College recommends the course leading to the Bachelor of Arts degree with an English major for those who are considering graduate work in the field of journalism and for those who plan to enter the field upon graduation. A broad background of liberal culture, a wide acquaintance with literature in its various forms, a knowledge of the mechanics of language, fundamental work in journalism and an extensive experience in writing provide a sound preparation for journalistic and literary endeavor. The student should make a careful choice of electives and should take advantage of opportunities for practical experience offered by the college publications.

Bachelor of Science

Biological and Physical Science and Mathematics

These courses permit opportunities for specialization in the fields of biology, chemistry, physics, and mathematics. They are designed for students who plan to enter graduate school, who wish to prepare to teach in the fields of science and mathematics, or who are looking forward to entrance upon the study of medicine, dentistry, pharmacy, engineering, or other scientific pursuits. The curricula are planned so that a student may obtain undergraduate training necessary for graduate work in biology, chemistry, physics, and mathematics.

Students who expect to take up graduate work in science should consult the department head of the field in which they expect to do their graduate work to determine what courses are required as the necessary undergraduate preparation.

Business

The Department of Business offers the following fields:

Business Administration
Accounting
Business Education—Teaching

The purpose of the curricula in Business is to provide students with basic methods of analysis and intellectual understanding so that they can clearly express a problem, formulate a plan of solution, and then verify the result to the end that society will benefit. Therefore stress is placed on the fundamental methodology of accounting, economics, finance, mathematics and human relations. All students of Business who receive a basic core of professional courses in business administration should be able to succeed in their chosen field. No student, however, is permitted to devote himself exclusively to business subjects, but must become acquainted with the cultural, scientific and humanitarian aspects of the world. Hence a balanced course is planned.

The curriculum in business administration gives training in the fundamentals of business that will enable the student to obtain an intelligent understanding of the principles of business. It provides for an analysis of business and industrial facts, and for training in the ability to think through problems with which he will be confronted in later life.

A student planning to enter the managerial phase of business will include in his program courses in business law, marketing, accounting, management, economics, and business statistics.

A student planning to major in accounting will begin this subject in his freshman year and continue it in its various phases through his senior year. The indispensable courses in corporation finance, in money and banking, and in business law are begun in the junior year. Thus, by following the program as outlined the student will obtain adequate training in accounting, without sacrificing general training.

A discussion of Business Education is to be found under Suggested Programs for students enrolling for the B.S. in Education.

The Healing Arts

The field of healing arts includes medicine, dentistry, osteopathy, veterinary medicine, nursing and laboratory technology.

In view of the fact that leading schools of medicine, dentistry, and osteopathy have many more applicants for admission than they can accommodate, it is evident that no student should plan to enter with only the minimum requirements. It is strongly urged that all students who contemplate entering any of these fields take the full four years of the course in pre-medical sciences

as outlined in the biology and chemistry curriculums. It is rare that the College recommends anyone who does not meet the requirements for a degree.

Medical Technology

Students preparing for this vocation need to complete a minimum of 90 semester hours in college and pursue a twelve to eighteen month study in an approved hospital.

A student who completes the three year curriculum outlined for the field of medical technology will be granted a B.S. degree upon the completion of the training program as outlined by an approved hospital and upon meeting the certifying requirements of the Board of Registry of Medical Technologists.

The curriculum preparing students for medical technology in co-operation with accredited hospitals has been approved by the Board of Registry of Medical Technologists, American Society of Clinical Pathologists.

Nursing

In order to help meet the need for professional nurses trained beyond the minimum requirements, Elizabethtown College offers the degree, Bachelor of Science in Nursing. Students in this program will complete two years of work at Elizabethtown College. Upon the completion of a three-year nursing course in an accredited school of nursing and the passing of a state board examination for the R.N. degree, students may apply for the B.S. degree as indicated. Although individuals contemplating this five-year program are encouraged to complete their college work before entering a school of nursing, graduate nurses will receive full consideration for admission to college upon satisfying admission requirements.

Pre-engineering

Elizabethtown College offers a co-operative program in engineering whereby a student may achieve a degree in liberal arts from Elizabethtown College and also an engineering degree from The Pennsylvania State University.

The three-two year plan is designed to give the engineering student three years of undergraduate work in engineering at Elizabethtown College to be followed by two years at the co-operating institution. Upon the successful completion of the five-year program, the student will receive the two above-named degrees.

Curriculums which Elizabethtown students will be qualified to enter at Penn State include aeronautical, civil, electrical, industrial, mechanical and sanitary engineering.

In order to be eligible for admission into the Pennsylvania State University, the student must be recommended by Elizabethtown College. The student will have the help of an adviser so that he may be properly guided toward the achievement of his goal.

Pre-engineering students interested in admission to universities other than The Pennsylvania State University should confer with the Director of Engineering Programs in order to make proper arrangements with the school of their choice.

Bachelor of Science in Education

Teaching

Elizabethtown College is approved by the Department of Public Instruction of the Commonwealth of Pennsylvania for the preparation of teachers in the following fields:

Business Education	Secondary Education
Elementary Education	Music Education

Provisional College Certificates

Elementary School Teachers

The provisional college certificate is issued to an applicant who has completed an approved four-year teacher educational curriculum in the elementary field and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania. The course must include Introduction to Education, Educational Psychology, Elementary School Art, Elementary School Music, Health and Hygiene, plus additional courses to make a total of thirty hours in professional education.

The Bachelor of Science in Elementary Education degree meets all the stated requirements. A student, by careful planning, may also meet the requirements in the Bachelor of Arts degree program.

Elementary teacher certification requirements of other states may also be met at Elizabethtown College.

Secondary School Teachers of Academic Subjects

The provisional college certificate is issued to an applicant who has completed an approved four-year teacher education curriculum and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania.

This certificate is based on the completion of eighteen or more semester hours of approved professional courses as follows: Introduction to Education, Educational Psychology, Student Teaching, and electives to be chosen from courses definitely related to teaching in the secondary schools. The Bachelor of Science in Secondary Education degree meets all these requirements. A student may also meet these requirements in various other B.S. degrees, and the degree, Bachelor of Arts.

In consultation with his adviser the student should familiarize himself with the specific subject matter requirements for the field in which he wishes to teach.

Music Teachers

The provisional college certificate is issued to an applicant who has completed an approved four-year music education curriculum and has been granted a baccalaureate degree from an accredited college. It is valid for three full years of teaching in any public school of the State of Pennsylvania.

Students desiring to meet certification requirements for teaching music in the public schools of Pennsylvania will find a program at Elizabethtown College geared to qualify them to teach either vocal or instrumental music at both the elementary and secondary levels.

Preparation of Business Education Teachers

Elizabethtown College is approved by Pennsylvania for the preparation of teachers of business education, and offers a wide program of courses in that field.

Departmental Offerings

Number Code and Identification of Terms

COURSES ARE IN MOST CASES NUMBERED ACCORDING TO THE FOLLOWING PATTERN:

Numbers 100 to 199	for freshman courses
Numbers 200 to 299	for sophomore courses
Numbers 300 to 399	for junior courses
Numbers 400 to 499	for senior courses

Number 499 is used for seminar courses in all departments.

Fall semester courses end with odd numbers.

Spring semester courses end with even numbers.

Courses offered regularly in both semesters are identified with the middle number "5."

Courses offered only in Summer Session and Extension School end with "0."

With the exception of Bi 101, En 201, Geog 101, and Hi 101, courses ending with numbers "01" are prerequisite to courses ending with numbers "02."

TERMS USED FOLLOWING COURSE DESCRIPTIONS ARE INTERPRETED AS FOLLOWS:

"hours" represents clock hours per week of recitation

"hours r" and "hours l" indicate clock hours per week of recitation and of laboratory respectively

"credits" represents semester hours credit for the course—for one semester in the case of single semester courses, and for both semesters in the case of two semester courses.

The eight-hour science requisite in all curricula, except those in which a specific course is designated, implies the inclusion of a minimum of two semesters of laboratory experience.

Social Studies includes courses listed under history and political science, geography, psychology, sociology, and economics.

A. C. Baugher Student Center

Department of Bible and Philosophy

The faculty personnel of the Bible and Philosophy Department of Elizabethtown College considers the major purpose of the department to be that of confronting students with the Word of God as revealed in the written record of the Holy Bible under the guidance of the Holy Spirit. The Bible is accepted as a record of sacred history and understanding of God, and as written by holy men of old, inspired by God. In the program of instruction, each student is called to study the Scriptures seriously, to seek a greater historical and theological depth of biblical understanding.

Departmental biblical studies are conducted in a reverent spirit and in the light of basic contemporary biblical scholarship which considers the significant contributions of archeology, linguistic and historical research. The department allows and encourages freedom of conscience in biblical interpretation. Instructional emphasis assumes a position of interpretation consistent with our Reformation-Anabaptist-Pietistic heritage within the Christian Church. Opportunities for questions and discussion in class as well as in personal conferences are always available to the student.

The department offers other Bible-related courses which include Church History, Christian Education, Psychology of Religion, Christian Ethics and

Philosophy. These courses are taught from the vantage point of biblical faith and insight. The Bible Department teaches as one department within a Christian liberal arts curriculum whose comprehensive goal is the pursuit of truth and attitudes which are consistent with our Christian faith.

Major Requirements: A minimum of thirty-two (32) semester hours, including the required courses—Bible 101-2, Christian Education 203, Religion 203 or 204 or 304, Philosophy 351, 352, 499 and Bible 301-2.

Bible and Philosophy Majors are required to complete twelve (12) hours in one of the following disciplines: Sociology, Psychology, or Economics.

Suggested Program—B.A. in Bible and Philosophy

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Physical Education	1	1
General Psychology 101-2	2	2
Foreign Language	3	3
Sociology 151	3	–
Music 211 or Hu. 251	–	3

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or English 207-8	3	3
Physical Education	1	1
Christian Education 203	3	–
Religion 203 or 204 or 304	–	2
Foreign Language	3	3
Science	4	4
European History	3	3

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
Philosophy 351	3	–
Philosophy 352	–	3
Bible 301-2	3	3
History and/or Political Science	3	3
English 305-6	2	2
Social Science	3	3
Department Electives	–	3

Senior Year	1st Sem.	2nd Sem.
Philosophy 499	2	–
Social Science	3	3
Department Electives	3	3
General Electives	6	8

Recommended Electives: Mathematics 151 and 174; Philosophy 411, other electives not previously taken.

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

A. Bible

Bi 101-102 Survey of Biblical History—A foundation course for subsequent study in Bible and Philosophy acquainting the student with the Bible as a whole. 2 hours—4 credits.

Bi 251 Old Testament Literature—A brief study of the various literary types in the Old Testament books followed by selections from the three main literary types: The Psalms, Wisdom Literature, and Prophetic Literature. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Bi 301-302 New Testament Greek—An introductory course in New Testament Greek for students interested in a thorough study of the Bible. *Prerequisite Bi 101-102.* 3 hours—6 credits.

Bi 312 New Testament Thought—An advanced course in Biblical studies with special attention to the thought patterns and theological insights found within the New Testament Literature; a consideration of the General Epistles, Hebrews and Revelation in relation to the Gospel records and the Pauline correspondence. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Bi 351 The Teachings of Jesus—A study of the teachings of Jesus in context with applications to life; a brief survey of the era in which Christ lived. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Bi 401-402 Advanced New Testament Greek*—Extensive reading and exegesis in New Testament Greek from various New Testament books. Advanced grammar will be a part of the course. *Prerequisite Bi 101-102; Bi 301-302.* 2 hours—4 credits.

B. Religion

Rel 203 Psychology of Religion—A study of the origin and growth of religion in the life of the individual, including prayer, conversion, worship and other religious experiences. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Rel 204 Philosophy of Religion—A systematic study of man's primary religious beliefs from the viewpoint of selected philosophical and theological perspectives. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Rel 303 Sociology of Religion—An analysis of the role and functions of religion and religious institutions in society. Religion will be seen as both a cultural and a social system. *Prerequisites Bi 101-102; Soc 151.* 2 hours—2 credits.

Rel 304 Comparative Religions—An introduction to the major religions of the world, the origin, characteristics, and contributions to world culture taught against the background of Christianity. *Prerequisite Bi 101-102.* 2 hours—2 credits.

Rel 312 History of the Christian Church—A survey course beginning with the First Century Church and ending with a study of current trends and movements in Christianity; a study of the development of Christian thought as well as of historical incidents. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Rel 411 The Christian Faith*—An introduction to the basic doctrines of the Christian Religion; a study of the central doctrines of the Bible including God, man, sin, Christ, and the Church. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Rel 499 Seminar in Religion*—An intensive study of a special area of inquiry within the field of Religion. *Prerequisite 10 semester hours in Bible and Philosophy.* 2 hours—2 credits—by appointment.

C. Christian Education

CE 203 Principles and Administration of Christian Education—A study of the fundamentals of religious education as applied to problems in the home, methods of work in the Church, the school, the Sunday School, and other community efforts for the Christian education of both children and adults. *Prerequisite Bi 101-102.* 3 hours—3 credits.

CE 312 History and Program of the Church of the Brethren—A course designed to give the student an understanding of the historical background of the Church of the Brethren and a view of its present program *Prerequisite Bi 101-102.* 3 hours—3 credits.

D. Philosophy

Ph 351 Ethics—An introduction to the historical types of Christian and Western philosophical ethics relating the material to the contemporary situation. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Ph 352 History of Philosophy—An introduction to the different types of Western philosophical thought with focus upon six representative philosophers. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Ph 411 Logic*—A study of the deductive and inductive methods of logic, both classical and contemporary. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Ph 412 Aesthetics*—An introduction to the various theories of aesthetics through readings in primary source material. *Prerequisite Bi 101-102.* 3 hours—3 credits.

Ph 414 American Philosophy*—A general survey of American philosophical thought with an emphasis on Pierce, James, Royce, Santayana, Dewey and Whitehead. *Prerequisite Bi 101-102; Ph 352.* 2 hours—2 credits.

Ph 416—Philosophical Ethics*—A study of the main types of philosophical ethics in the Western world. *Prerequisite Bi 101-102.* 3 hours—3 credits

* All 400 courses should have the consent of the professor.

Myer Hall—Residence for Women

Department of Biology

The Biology Department presents a program designed particularly for students interested in graduate study and research in the biological sciences and related fields, as well as in preparation for advanced training in specific professions. In addition, it provides the necessary training and course requirements for students desiring to teach biology and the related sciences in the secondary schools.

Major Requirements: A minimum of eighteen (18) semester hours in Biology beyond Bio 101-2.

Suggested Programs—B.S. in Biology

A. Pre-Medical and Graduate School Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Biology 101-2	4	4
English 101-2*	3	3
Physical Education	1	1
General Psychology 101-2	2	2
Mathematics 103	4	–
Mathematics 164	–	4

Sophomore Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3	3 or 4
English 201-2 or 205-6 or 207-8	2 or 3	2 or 3
Mathematics 201-2	4	4
Foreign Language	3	3
Chemistry 201-2	4	4
Chemistry 203-4	1	1

Junior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Chemistry 301	5	–
Foreign Language	3	3
Social Studies	–	3
Physical Education	1	1
Bible 101-2	2	2
General Electives	3	4*

* Suggested Elective: Chemistry 322

Senior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Philosophy 351 or 352	3	–
General Physics 201-2	4	4
Social Studies	3	3

B. Biology Education Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Biology 101-2	4	4
English 101-2*	3	3
Math. 151-53 or 153-54	3	3
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Bible 101-2	2	2
Gen. Psychology 101-2	2	2
English 201-2 or 207-8	3	3
Education 154	3	–
Physical Education	1	1
Sociology 151	–	3
Mathematics* or French Language	3	3

* Ma 154 must be completed by the end of the Sophomore year.

Junior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	3 or 4	3 or 4
Education 203	3	
Education 204	–	3
Education 332	–	3
General Physics 201-2	4	4
History 303	3	
Electives in Liberal Arts	4	

Senior Year	1st Sem.	2nd Sem.
Biology in keeping with objective	–	8
Education 403-4	3	3
Education 451	8	
Education 499	2	

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

BIO 101-102 GENERAL BIOLOGY—A study of the science of life, its concepts and principles, through consideration of the structure, function, and life histories of representative animals and plants. 3 hours *r*, 2 hours *l*—8 credits.

BIO 201 COMPARATIVE ANATOMY OF VERTEBRATES—A detailed comparative study of the morphology of vertebrate organ systems in representative species. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 202 MAMMALIAN ANATOMY—Comprehensive anatomy of the domestic cat. *Prerequisite Bio 101-102.* 1 hour *r*, 4 hours *l*—3 credits.

BIO 203 PLANT BIOLOGY—Basic studies in the field of Botany as a foundation for advanced study. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 205 MICROBIOLOGY—An introduction to the general principles and techniques of the study of microorganisms. *Prerequisite Bio 101-102 and Ch 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 207 TAXONOMIC ECOLOGY OF PLANTS—Introduction to the study of the identification of flowering plants of the local area with particular emphasis on their distribution. *Prerequiste Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 256 HISTOLOGICAL TECHNIQUE—Basic training in the preparation of plant and animal tissue for study under the microscope. *Prerequisite Bio 101-102 and Ch 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 304 EMBRYOLOGY—A study of the comparative vertebrate development from the fertilized egg to the formation of the principal organs of the body. *Prerequisite Bio 101-102.* 2 hours *r*, 4 hours *l*—4 credits.

BIO 305 GENERAL PHYSIOLOGY—Basic elements that make the machinery of the body function; shows the purpose of anatomy. *Prerequisite Bio 201.* 2 hours *r*, 2 hours *l*—3 credits.

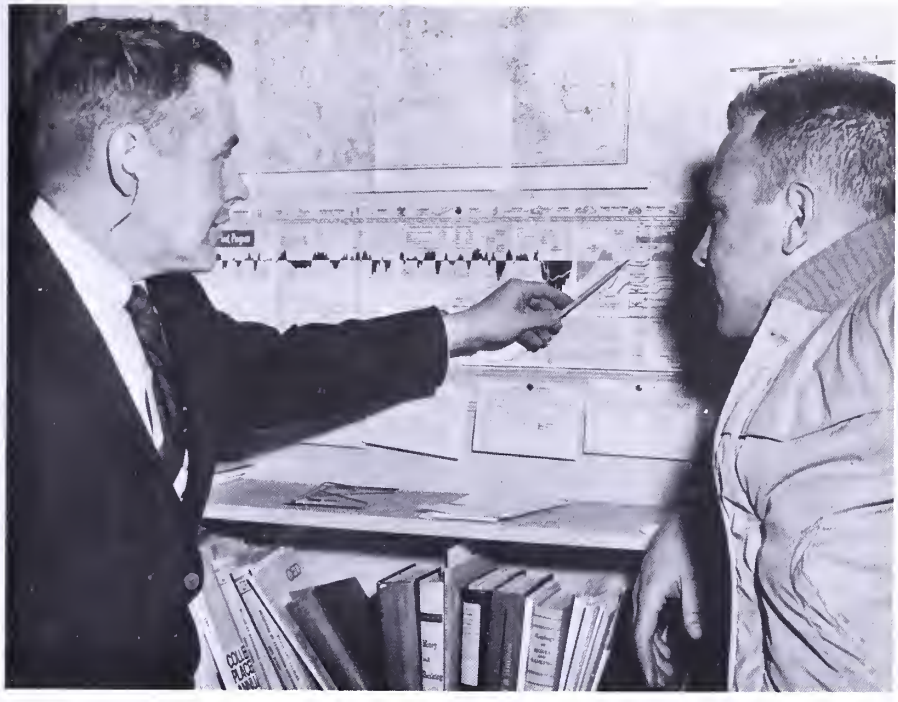
BIO 306 HISTOLOGY—The study of cells as organized into the tissues and organs of representative vertebrates. *Prerequisite Bio 304 and 305.* 1 hour *r*, 4 hours *l*—3 credits.

BIO 307 GENETICS—An introduction to the study of the principles of heredity. *Prerequisite Bio 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

BIO 412 TECHNIQUES IN BIOLOGY—Methods in preparing demonstrations, collecting and preserving materials, and related techniques. Offered for prospective teachers and graduate students. *Prerequisite a minimum of 16 semester hours in Biology and permission of the instructor.* 2 hours or credits variable.

BIO 414 CELLULAR PLANT PHYSIOLOGY—A chemical and physical approach to the understanding of cell mechanisms. Much *independent* work is expected of the student. Topics vary from year to year. *Prerequisites Bio 305 and Ch 201-2.* 1 hour *r*, 4 hours *l*—3 credits.

BIO 499 SPECIAL PROBLEMS IN BIOLOGY—Designed to acquaint the advanced student with the problems involved in individual work in Biology. *Prerequisite a minimum of 16 semester hours in Biology and permission of the instructor.* By appointment—Credits variable.



Department of Business

The Department of Business seeks to prepare students for positions of responsibility in the economic and business worlds and in government. It also provides a sound education in economics and business subjects for those students who plan to teach, enter the legal or accounting professions, or further their education through graduate study.

The Department offers courses leading to three degrees—Bachelor of Science in Accounting, Bachelor of Science in Business Administration, and Bachelor of Science in Education with a major in Business Education.

Major Requirements:

A. *Accounting:* Ac 101-2, Ma 162 or 168, Ac 201-2, BA 201-2, BA 214, Ac 301-2, BA 323-24, BA 331-32, BA 343-44, Ac 401-2, Ac 403-4, BA 424, BA 431-32, BA 465.

B. *Business Administration:* Ac 101-2, Ma 162 or 168, Ac 201, 202, 211, 212, or 301 (6 hrs.), BA 201-2, BA 214, BA 323-24, BA 331-32, BA 343-44, BA 465 or 467.

C. *Business Education:* Ac 101-2, Ma 162 or 168, BA 201-2, BA 331-32, BEd 314, BEd 335, shorthand and typewriting preferred electives.

Suggested Program—B.S. in Accounting

Freshman Year	1st Sem.	2nd Sem.
Accounting 101-2	3	3
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	2	2
Mathematics 151 or 153	3	–
Mathematics 162 or 168	–	3
Gen. Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Accounting 201-2	3	3
Business Adm. 201-2	3	3
Business Adm. 214	–	3
English 201-2 or 207-8	3	3
Sociology 151	3	–
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Accounting 301-2	3	3
Business Adm. 323	3	–
Business Adm. 324	–	3
Business Adm. 332-32	3	3
Business Adm. 343-44	3	3
History	3	3
Electives	–	2

Senior Year	1st Sem.	2nd Sem.
Accounting 401	3	3
Accounting 403	3	–
Accounting 404	–	3
Business Adm. 424	–	2
Business Adm. 431-32	1	1
Business Adm. 465	3	–
Philosophy 351**	–	3
Political Science 352**	3	–
Electives	2	3

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** May be taken either semester.

Suggested Program—B.S. in Business Administration

Freshman Year	1st Sem.	2nd Sem.
Accounting 101-2	3	3
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Mathematics 151 or 153	3	–
Mathematics 162 or 168	–	3
Gen. Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Accounting	3	3
Business Adm. 201-2	3	3
Business Adm. 214	–	3
English 201-2 or 207-8	3	3
Sociology 151	3	–
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Business Adm. 323	3	–
Business Adm. 324	–	3
Business Adm. 331-32	3	3
Business Adm. 343-44	3	3
History	3	3
Electives***	3	5

Senior Year	1st Sem.	2nd Sem.
Business Adm. 465 or 467	3	–
Philosophy 351 or 352**	–	3
Political Science**	3	–
Electives***	9	10

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** May be taken either semester.

*** Of the twenty-nine (29) hours of electives, eighteen (18) must be taken in the field of business.

Suggested Program—B.S. in Education
(Business Education Major)

Freshman Year	1st Sem.	2nd Sem.
Accounting 101-2	3	3
Bible 101-2	2	2
Education 154	–	3
English 101-2*	3	3
Mathematics 151 or 153	3	–
Mathematics 162 or 168	–	3
Physical Education	1	1
Gen. Psychology 101-2	2	2
Sociology 151	3	–

Sophomore Year	1st Sem.	2nd Sem.
Business 201-2	3	3
English 201-2 or 207-8**	3	3
Adv. Physical Ed.	1	1
Science	4	4
Electives	5	5

Junior Year	1st Sem.	2nd Sem.
Business Adm. 331-32	3	3
Business Education 314	–	2
Education 203	–	3
Education 331	3	–
History 303-4	3	3
Electives	8	6

Senior Year	1st Sem.	2nd Sem.
Business Ed. 335	3	–
Education 302	–	2
Education 441	3	–
Education 451	8	–
Philosophy 351 or 352	–	3
Electives**	–	9

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** Students desiring to elect accounting, shorthand, and typewriting may postpone the literature course until their junior year.

Certification Requirements Effective After October 1, 1963

Business Education may be written on a provisional college certificate upon the completion of thirty-six (36) semester hours including twelve semester hours distributed in at least four (4) of the following subjects: bookkeeping, business law, business organization and management, office practice*, principles of selling, and economics; and upon the completion of the requirements of two or more of the following:

Bookkeeping	12 semester hours
Retail Selling	9 semester hours
Shorthand	9 semester hours
Typewriting	6 semester hours

The interpretation of the above is as follows:

"Business education written on the certificate is valid for teaching business law, general business, and office practice provided two (2) or more of the following are also written on the certificate: bookkeeping, retail selling, shorthand, and/or typewriting."

Regulations:

1. A person certificated in English may teach business English and/or a person certificated in mathematics may teach business mathematics.
2. A person certificated in business education may teach business English upon the completion of fifteen (15) semester hours in English.
3. A person certificated in business education may teach business mathe-

matics upon the completion of fifteen (15) semester hours in accounting and mathematics.

* Required course.

In addition, the Department of Education should be consulted for requirements for secondary certification.

Courses of Instruction

A. Accounting

Ac 101-102 Principles of Accounting—A thorough study of the principles of debit and credit; analysis and the use of journals and ledgers, financial statements, controlling accounts and subsidiary ledgers; voucher system; partnership and corporation accounting; departmental and branch accounting.—2 hours *r*, 2 hours *l*—6 credits.

Ac 201 Cost Accounting—A survey of the elements of costs and their application in job order and process systems; standard cost and direct costing systems, with emphasis on methodology. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 202 Advanced Cost Accounting—A continuation of the theory and practice of cost accounting, with emphasis on managerial utility of data, planning, control and decision making. *Prerequisite Ac 201.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 212 Personal Income Tax Accounting—A survey course in preparation of individual income tax returns; a study of what constitutes income and expense and how to report them on tax forms; tax saving devices for the individual. *Prerequisite Ac 101-102.* 2 hours *r*, 2 hours *l*—3 credits.

Ac 301 Intermediate Accounting—A thorough study of the use, composition and variations of accounting methods in connection with the following accounts: cash, receivables, inventories, fixed assets and valuation accounts; investments, and liabilities; prevailing accounting theories in determining net income; the use of fund statements. *Prerequisite Ac 101-102.* 3 hours—3 credits.

Ac 302 Advanced Accounting—A detailed study of accounting for partnerships and corporation; comparative statements, analysis of working capital, insurance, installment sales; an introduction to accounting for consolidations. *Prerequisite Ac 301.* 3 credits.

Ac 401-402. Auditing—An extensive analysis of the responsibilities and work of an auditor, the purpose and kinds of audits, preparatory analysis and considerations, systems of internal check, consolidated statements, auditors' reports, investigations, and auditors' certificates; an audit case problem. *Prerequisite Ac 301-302.* 3 hours—6 credits.

Ac 403 Tax Accounting—A study of the important provisions of the Federal Tax law pertaining to individuals, partnerships and corporations, using illustrative examples, selected questions and problems, and the preparation of returns. *Prerequisite Ac 301-302.* 3 hours—3 credits.

Ac 404 C.P.A. Problems—A course designed especially for students of advanced accounting who are planning to take state examination for qualifications as Certified Public Accountants. *Prerequisite Ac 301-302.* 3 hours—3 credits.

B. Business Administration

BA 201-202 PRINCIPLES OF ECONOMICS—A beginning course in the principles and problems of economics; production, monopoly, public finance, national income, money, banking, business cycles, value, price, supply and demand, wages, rent, interest, and profits. 3 hours—6 credits.

BA 214 PRINCIPLES OF MARKETING—An investigation of the strategies employed in marketing different classes of products; a description of the service provided by the various middle-men; an analysis of the basic marketing function—buying, selling, transportation, storage, financing, risk-taking, market information, standardization; the government's role in marketing; marketing cost and efficiency. 3 hours—3 credits.

BA 301-302 INTERMEDIATE ECONOMIC THEORY—An extensive study devoted to the structure of markets, pricing of goods, pricing of the factors of production and general equilibrium theory. During the second semester macroeconomics will be emphasized including national income accounting, monetary and fiscal stabilization policies, a comparison of the Classical and Keynesian policy recommendations. *Prerequisite BA 201-202 and permission of the instructor.* 3 hours—6 credits.

BA 305 COMPARATIVE ECONOMIC SYSTEMS—Examination, criticism and appraisal of alternative economic systems; capitalism, socialism, communism, and mixed economic systems. *Prerequisite BA 201-202.* 2 hours—2 credits.

BA 306 DEVELOPMENT OF ECONOMIC DOCTRINE—Economic science as it developed from the classical tradition of Smith, Ricardo, and Malthus to the modern economics of Keynes and Schumpeter. *Prerequisite BA 201-202.* 2 hours—2 credits.

BA 315 PRINCIPLES OF ADVERTISING—An analysis of the steps undertaken in preparing specific advertisements, appraisal of the various media available to the advertiser, investigation of methods used in testing the effectiveness of advertising, procedures used in preparing the complete advertising campaign. *Prerequisite BA 214.* 3 hours—3 credits.

BA 316 PRINCIPLES OF SALESMANSHIP—The principles of personal salesmanship including preparation for and obtaining the interview, constructing and presenting the sales talk; steps in making and closing sales; prospecting; sales techniques. *Prerequisite BA 214.* 3 hours—3 credits.

BA 317 PRINCIPLES OF RETAILING—Buying and selling activities; merchandise budgeting and inventory control; store location, appearance and layout; training and supervision of employees; credit policies; pricing policies; use of gross margin, expense and profit figures as guides to decision making. *Prerequisite BA 214.* 3 hours—3 credits.

BA 323 MONEY AND BANKING—A study of the monetary system and the credit and banking system of the United States; emphasis on the Federal Reserve System, government fiscal policy, debt management, credit control and other monetary problems. 3 hours—3 credits.

BA 324 CORPORATION FINANCE—An analysis of the nature and development of the corporate forms of business enterprise; the characteristics of the various types of securities, the part played by each type in the capital structure of the corporation, and the manner of issuance and sale; the management of corporate funds. 3 hours—3 credits.

BA 331-332 BUSINESS LAW—A study of the law of business and its administration; the general principles of the law of contract, of agency, employer and

employee, negotiable instruments, suretyship, and insurance; second semester—bailments, carriers, sales, partnership, corporations, property, deeds of conveyance, mortgages, torts, and business crimes. 3 hours—6 credits.

BA 343-344 Business Statistics—The course is primarily designed to develop basic statistical reasoning through the use of conventional statistical methods plus some simple modern statistical techniques in business and economic research. Topics included are as follows: Nature of statistics, tabular presentation of statistical data, frequency distribution, measurement of central tendency, dispersion and skewness, index numbers, design of samples, statistical inference, times series, correlation analysis, binomial distribution, and simple probability theory. 3 hours—6 credits.

BA 403 International Economics—An introduction to the theory of international trade, finance and commercial policies. The following topics will be examined: theory of comparative cost advantage; international mobility of production factors; structure and transfer of international balance of payments; basic theory of foreign exchange and exchange control; nature, system and effects of tariffs and quotas. 2 hours—2 credits.

BA 404 Economic Problems—An application of economic principles to such problems as inflation and deflation, full employment, economic stagnation, credit control, monopolies, and controlled economies. *Prerequisite BA 201-202.* 3 hours—3 credits.

BA 405 Economic Geography—A study of society's allocation of natural resources to various areas; the problem of underdeveloped nations today; land forms, minerals and agriculture; economic aspects of major industries of the world. 3 hours—3 credits.

BA 414 Principles of Transportation—An examination of the vital role of transportation in economic development; place and time utility; rail, air, water, and highway carriers' operation in the United States; rate-making, competition and government regulation. 3 hours—3 credits.

BA 415 Principles of Marketing Research—The use of the scientific method in solving marketing problems; steps in planning effective surveys; preparation of questionnaires, collection, tabulation, analysis and interpretation of data; writing meaningful reports; statistical sampling; proper use of internal records and secondary sources of information. *Prerequisite BA 214.* 3 hours—3 credits.

BA 424 Statement Analysis—An advanced course unifying some of the work of corporation finance and advanced accounting with emphasis on the practical problems of the analysis of financial statements. *Prerequisite AC 301-302, BA 323-324.* 2 hours—2 credits.

BA 431-432 Advanced Business Law—Emphasis upon the principles of law as they apply to accounting; case studies and typical C. P. A. law problems included. *Prerequisite BA 331-332.* 1 hour—2 credits.

BA 465 Principles of Management—Application of scientific principles of business organization and management in a modern industrialized economy; planning, organizing, coordinating, directing, and controlling functions. Also outside readings and cases. 3 hours—3 credits.

BA 467 Personnel Management—An investigation of techniques undertaken by industry to most effectively utilize its labor force: selection procedures, training of employees, communication, merit rating, determining job requirements, handling grievances, employee morale, transfer and promotion. 3 hours—3 credits.

BA 468 Industrial and Labor Relations—An evaluation of the historical development of the union movement and the collective bargaining process; union-management relationships, procedures for the alleviation of tension, alternatives to force, the role of government participation and control in the realization of industrial peace. 3 hours—3 credits.

BA 497—Business Research Thesis—An opportunity for seniors in independent study and research on a problem or topic in the field of business (Copies of the thesis must be acceptable for inclusion in the College library.) By appointment. 3 credits.

BA 499 Seminar in Marketing—A course designed to integrate previously taken marketing offerings by stressing the managerial function. Techniques used are case studies, readings, projects and simulated marketing decision devices. *Prerequisite permission of instructor.* 3 hours—3 credits.

C. Business Education

BEd 101-102 Elementary Gregg Shorthand—An intensive study of Gregg Shorthand Simplified; emphasis upon theory, application, phrasing, dictation of connected matter, reading from shorthand plates, vocabulary building, and the dictation and transcription of new material at varying rates of speed. 3 hours —6 credits.

BEd 111-112 Elementary Typewriting—Training in fundamental typewriting technique; machine operation, keyboard technique, word drills, letter forms, tabulations, manuscript set-up, preparation of business and legal papers, speed and accuracy building. 2 hours *r*, 2 hours *l*—4 credits.

BEd 201-202 Advanced Gregg Shorthand—A thorough review of shorthand theory; dictation and transcription covering a wide range of businesses for the development of the vocabulary, speed, and accuracy demanded in business and professional offices; emphasis on shorthand penmanship, vocabulary, and advanced phrase building. *Prerequisites BEd 101-102 or permission of instructor.* 3 hours—6 credits.

BEd 211 Advanced Typewriting—Development of job production techniques, especially for skill in rapid production of commercially acceptable and mailable copy. *Prerequisite BEd 111-112 or permission of the instructor.* 3 hours—2 credits.

BEd 213 Office Machine Practice—Instruction and practice in the use of modern office machines—adding listing machines, calculating machines, comptometers, stencil and liquid duplicators. 3 hours—2 credits.

BEd 314 Office Practice—Instruction in secretarial duties common to all fields of business; special attention to filing, handling of mail, editing and proofreading, duties of the receptionist, business ethics, and the use of reference books; research assignments, job sheets, and laboratory exercises included. 3 hours—2 credits.

BEd 316 Business Correspondence—A study in effective communication of ideas and information in the modern business world; the letter, the report, the advertisement, inquiry forms such as the interview and the questionnaire. 3 hours—3 credits.

BEd 335 Methods and Principles of Business Education—A thorough consideration of the methods of teaching business subjects on the high school level—particularly bookkeeping, shorthand, typewriting, and related subjects; curriculum materials, their selection and adaptation; tests and measurements in commercial education. 3 hours—3 credits.

Department of Chemistry

The basic courses offered in this department are designed to cultivate a scientific spirit and habit. The more advanced courses are designed to prepare the student for further work in industry, graduate school, or medicine. A sequence of courses is designed for students who want to teach chemistry on a secondary level.

For the professional chemist, the best possible background in mathematics, physics, and German is desired. For those engaged in medicine, an extensive background in biology is desired. The studies in communication skills and the humanities, which round out a liberal arts education, make for a very full curriculum for those majoring in this department.

Major Requirements: The following curricula constitute a minimum major and will be approved when the electives are taken to complete one of the following:

A. *Industry or Graduate School*—This option must include Ch 302, Ch 421, and four (4) additional hours of chemistry electives.
B. *Pre-Medical*—The pre-medical option must include Bio 101-2, Bio 201-2, and Bio 306 or approved biology alternates.
C. *Education*—The secondary teaching option must include courses approved by the Education Department for certification by the Pennsylvania Department of Education.

All options must elect the following:

Literature (English or World)	6 hrs.
History (Including Hi 301, 302 or P.S. 352)	6 hrs
Bible	6 hrs.
Physical Education	4 hrs.

All options must elect a total of ten (10) semester hours from the following areas: Economics, Religion (exclusive of required Bible), Psychology, and Sociology.

Suggested Programs—B.S. in Chemistry

A. Graduate School and Industry Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
English 101-2*	3	3
German 101-2	3	3
Mathematics 103	4	
Mathematics 164	–	4
Bible 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Chemistry 201-2	4	4
Chemistry 203-4	1	1
German 201-2	3	3
Mathematics 201-2	4	4
General Physics 201-2	4	4
General Psychology 101-2	2	2

Junior Year	1st Sem.	2nd Sem.
Chemistry 303-4	4	4
Chemistry 301	5	
Chemistry 302	–	4
English 201-2	3	3
History 303-4	3	3
Physical Education	1	1
Electives	2	3

Senior Year	1st Sem.	2nd Sem.
Chemistry 421	4	
Chemistry 401	3	
Bible or Ethics	3	
Elective in Chemistry	–	4
Chemistry 499	1	1
General Electives	–	6

B. Pre-Medical Curriculum

Freshman Year	1st Sem.	2nd Sem.
Biology 101-2	4	4
Bible 101-2	2	2
Chemistry 101-2	4	4
English 101-2*	3	3
Mathematics 103	4	
Mathematics 164	–	4

Sophomore Year	1st Sem.	2nd Sem.
Chemistry 201-2	4	4
Chemistry 203-4	1	1
German 101-2	3	3
Mathematics 201-2	4	4
General Physics 201-2	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Economics 201	–	3
Chemistry 301	5	–
Chemistry 303-4	4	4
Biology 201	4	
Biology 202	–	4
German 201-2	3	3
Sociology 151	–	3
Physical Education	1	1

Senior Year	1st Sem.	2nd Sem.
General Psychology 101-2	2	2
History 303-4	3	3
Bible or Ethics	2	
General Electives	5	8

C. Chemistry Education Curriculum

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
English 101-2*	3	3
German 101-2	3	3
Mathematics 103	4	
Mathematics 164	–	4
General Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Bible 101	2	–
Chemistry 201-2	4	4
Chemistry 203-4	1	1
German 201-2	3	3
Mathematics 201-2	4	4
Education 302	–	2
General Physics 201-2	4	4

Junior Year	1st Sem.	2nd Sem.
Bible 102	–	2
Chemistry 301	5	–
Chemistry 303-4	4	4
English 201-2	3	3
History 303-4	3	3
Physical Education	1	1
Education Electives	2	5

Senior Year	1st Sem.	2nd Sem.
Education 451	8	
Philosophy 351	–	3
Education Electives	6	–
General Electives	–	5

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

CH 101-102 INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS—A study of the principles of Inorganic Chemistry, from the viewpoint of atomic and molecular structure, combined with a systematic study of qualitative separation of the common cations and anions. *Prerequisite: High school chemistry, biology or physics, and algebra.* 3 hours *r*, 3 hours *l*—8 credits.

CH 111-112 ELEMENTARY COLLEGE CHEMISTRY—A terminal course in the Elementary Principles of Chemistry. 3 hours *r*, 2 hours *l*—8 credits.

CH 201-202 ORGANIC CHEMISTRY—A study of the compounds carbon, aliphatic and aromatic; their properties, synthesis, structures, uses and mechanism of their reactions. *Prerequisite Ch 101-102.* 3 hours *r*, 3 hours *l*—8 credits.

CH 203-204 CHEMICAL CALCULATIONS—Solving of problems dealing with concentration, equilibria, equivalent weights, slide rule, and logarithms. *Prerequisite Ch 101-102.* 1 hour *r*—2 credits.

CH 301 QUANTITATIVE ANALYSIS—Principles and practices of laboratory determinations by gravimetric, volumetric and colorometric analysis together with the mathematical basis for these procedures. *Prerequisite Ch 203-204.* 3 hours *r*, 5 hours *l*—5 credits.

CH 302 ADVANCED QUANTITATIVE ANALYSIS—Individual work in analysis from the following fields: ferrous or nonferrous alloys, rock, food, feed, fertilizer, paints, petroleum; commercial samples used. *Prerequisite Ch 301, Ch 303.* 2 hours *r*, 8 hours *l*—4 credits.

CH 303-304 PHYSICAL CHEMISTRY—An expansion and coordination of previous courses as related to the physical states of matter, solutions—homogeneous and heterogeneous, equilibria, thermodynamics, and the interrelationship of these quantities through mathematics; laboratory emphasis on the application of

physical measurements to the solutions of chemical problems. *Prerequisite Ch 202, Ch 203-204, Ma 201-202, and Phy 201-202.* 3 hours *r*, 3 hours *l*—8 credits.

Ch 321 Radiochemistry—A study of physical and chemical properties of radioactive compounds and some of their applications. *Prerequisite or concurrent Ch 301.* 1 hour *r*, 3 hours *l*—2 credits.

Ch 322 Biochemistry—A study of the chemical processes involving living matter. *Prerequisite Ch 201-202.* 3 hours *r*, 3 hours *l*—4 credits.

Ch 401 Advanced Inorganic Chemistry—A study of complex ions and coordination compounds, bonding theories, oxidation-reduction potentials, and the more common elements. *Prerequisite Ch 301-302.* 3 hours *r*—3 credits.

Ch 421 Qualitative Organic Analysis—A study of properties of functional groups of organic compounds, with application of these principles used in the identification of pure organic compounds and of mixtures of organic compounds. *Prerequisite Ch 202, 301.* 2 hours *r*, 8 hours *l*—4 credits.

Ch 422 Problems in Organic Chemistry—A study of the problems of organic synthesis and organic quantitative analysis. *Prerequisite Ch 202, 301.* 2 hours *r*, 10 hours *l*—4 credits.

Ch 499 Special Problems in Chemistry—Designed to acquaint the advanced student with the problems involved in individual work in Chemistry. *Permission of Instructor.* Credits variable.

Geology

Geol 104 Geology—Includes Physical Geology, a study of the evolution of the earth's crust as revealed by the arrangement and content of the rocks, and Historical Geology dealing with the sequence of events of prehistorical times as revealed by a study of fossils. 3 hours *r*, 3 hours *l*—4 credits.

Gibble Science Building

Department of Education

The function of the professional education program at Elizabethtown College is to prepare teachers to qualify for elementary and secondary school teaching.

Each applicant who is planning to teach must declare his intention to the Director of Teacher Training during the second semester of the sophomore year and meet the qualifications of the Committee on Teacher Education. The basis of criteria formulated by the Teacher Education Committee is listed below. Applicants who do not meet the requirements are counselled out of the teacher education program and directed into other areas. The criteria are as follows:

1. Approval of major department
2. English proficiency
3. Speech proficiency
4. Good physical, emotional, and mental health record
5. Scholarship: grade point ratio of 2.0 or better
6. Personal qualifications: Approval of the Dean of Men or the Dean of Women

No student will be recommended for state certification if he has any grade below "C" in his teaching major.

Information concerning certification in other states may be obtained from the Department of Education of each state, or from the Director of Teacher Training at Elizabethtown College. Students are responsible for meeting specific requirements.

General Requirements for Teachers

The Commonwealth of Pennsylvania has established the following Professional Education Requirements for all teachers:

Eighteen semester hours of professional education courses distributed in the following areas:

1. Social foundations of education
2. Educational Psychology and human growth and development
3. Materials and methods of instruction and curriculum (Related to subject matter specialization field or fields)
4. Actual practicum and student teaching (Related to the subject matter specialization field or fields)

With these courses a student in the Liberal Arts or Science curricula will be certified to teach in the area of his concentration if it be Biology, Chemistry, English, Foreign Language, History and Political Science, Mathematics, or Social Studies. A Liberal Arts or Science student may be certified to teach in the elementary schools with the eighteen semester hours in professional education listed above in addition to the following courses:

1. A course in the teaching of reading
2. Eighteen (18) to twenty-four (24) semester hours (effective October 1, 1964) selected from a minimum of four of the following areas in Elementary Education: mathematics, arts and crafts, music, physical education, language arts, sciences, social studies, geography, mental hygiene, or a course dealing with exceptional children.

Major Professional Requirements:

A. *Elementary Education:* Ed 154, Ed 203, Ed 204, Ed 315-16, Ed 354, Ed 318, Ed 302, Ed 313-14, Ed 322, Ed 441, Ed 451, Ed 403-4.

B. *Secondary Education:* Ed 154, Ed 203, Ed 204, Ed 331-32, Ed 334, Ed 302, Ed 441, Ed 403-4, Ed 451, Ed 352.

Electives should be in areas in which a student wishes to be certified. State requirements are as follows:

	Semester Hours
English	36
Foreign Language	24
History	24
History and Government	24
Mathematics	24
Biology	24
Chemistry	24
Physics	24
Physics and Mathematics	24

General Science—24 semester hours covering 2 or more sciences.
Comprehensive Science—40 semester hours, consult advisor.
Social Studies—36 semester hours, consult advisor.

Suggested Programs—Bachelor of Science in Education

A. Elementary Education

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Education 154**	3	–
English 101-2*	3	3
History 101-2	3	3
or		
Geography 103-106	3	3
Mathematics 151	3	–
Physical Education 251	–	2
Gen. Psychology 101-2	2	2
Sociology 151**	–	3

Sophomore Year	1st Sem.	2nd Sem.
Biology 101-2	4	4
Education 203**	3	–
Education 204**	–	3
English 207-8	3	3
History 101-2	3	3
or		
Geography 103-6	3	3
Physical Science 203**	–	3
Physical Education 252	2	–
Psychology 312**	3	–

Junior Year	1st Sem.	2nd Sem.
Education 315-16	3	3
History 303-4	3	3
Education 354**	–	3
Music 303	3	–
Education 318	–	3
Education 302**	2	–
Education 313-14	3	3
Education 322	3	–
Electives	–	2

Senior Year	1st Sem.	2nd Sem.
Education 441**	3	–
Education 451	8	–
Education 403-4	3	3
Philosophy 351	–	3
Humanities 251	–	3
Electives	–	6

B. Secondary Education

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Education 154**	–	3
English 101-2*	3	3
History 101-2		
or		
Geography 103-4	3	3
Language or Mathematics	3	3
Gen. Psychology 101-2	2	2
Sociology 151**	3	–
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Education 203**	3	–
Education 204**	–	3
English 201-2 or 207-8	3	3
History 303-4	3	3
Science	4	4
Physical Education	1	1
Electives	3	3

Junior Year	1st Sem.	2nd Sem.
Education 331-32	3	3
Education 334	–	3
Education 302**	3	–
Philosophy 351 or 352	3	–
English 321	–	2
Electives	9	9

Senior Year	1st Sem.	2nd Sem.
Education 441**	3	–
Education 403-4	3	3
Education 451***	8	–
Education 352	–	3
Electives	–	5

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** The work of these courses may be taken either semester.

*** Courses taken during eight (8) weeks period.

Education

Ed 154 Introduction to Education—A study of American Schools with consideration of European antecedents and of educational changes in the United States; control and support of education, organization of schools, the teacher, methods of teaching, recent developments in education. 3 hours—3 credits.

Ed 203 Educational Psychology—A fundamental course concerned with the original nature of man, the laws of learning, and individual differences. *Prerequisite Ps 101-102.* 3 hours—3 credits.

Ed 204 Educational Sociology—Sociological facts with particular educational implications with attention to community life and personality contacts and adjustments. *Prerequisite So 151 or Ed 154.* 3 hours—3 credits.

Ed 302 Audio-Visual Education—Designed to present the fundamental principles of visual and sensory aids used in the schoolroom; various types and techniques applied to subject matter. 2 hours *r,* 1 hour *l*—3 credits.

Ed 313-314 Teaching of Arithmetic and Science—Fundamental psychological principles in teaching and interpreting arithmetic and science in grades 1 through 8; an acquaintance with materials of instruction. 3 hours—6 credits.

Ed 315-316 Teaching of Reading and Language Arts—Methods and practice in teaching reading, grades 1 to 6; the study and practice of methods in teaching oral and written composition, manuscript and cursive writing, phonics and spelling. *Prerequisite En 201-202 or En 207-208.* 3 hours—6 credits.

Ed 318 Teaching of Music in the Elementary School—Acquaints the prospective elementary classroom teacher with methods and materials used in the teaching of music. *Prerequisite Mu 303.* 3 hours—3 credits.

Ed 322 Teaching of Public School Art—Designed to prepare the student to teach public school art; includes drawing, the elementary principles of design, lettering, composition, and color harmony and their application to home, school, and community interests. 3 hours—3 credits.

Ed 331-332 Principles and Practices of Secondary Education—Including Reading—A study of the problems of teaching, learning activities, organization of courses of instruction and units, methods of planning and organizing classroom activities, and of evaluating the outcomes on the secondary level; practice in lesson planning and demonstration teaching; includes Reading. 3 hours—6 credits.

Ed 334 Educational Measurements—A consideration of the better known educational tests and an introduction to statistics and their use. 3 hours—3 credits.

Ed 342 Educational Guidance—The history, principles, problems, procedures, organization, administration, and supervision of educational and vocational guidance; special attention to the importance of guidance and personnel service at various educational levels. 3 hours—3 credits.

Ed 344 Safety Education—A study of the history and development of safety education, the psychology of accident prevention, driver education, sports education, industrial safety techniques, and measuring the results of safety education. 3 hours—3 credits.

Ed 352 Teaching of Social Studies—Designed to acquaint the prospective teacher of the social studies in elementary and secondary schools with current methods, literature, and visual aids in the field. 3 hours—3 credits.

Ed 354 Children's Literature—An interpretative and critical study of literature for children, including selected readings, fiction and non-fiction, and a study of illustrators and the history of writing for children. Open to only Juniors and Seniors. 3 hours—3 credits.

Ed 360 Reading in the Secondary School Academic Subjects—An overview of the elementary reading program as a base for developing the understandings and improving techniques for developing skills applicable to the secondary student. The course is planned to help the teacher provide a developmental reading program with respect to the secondary academic subjects. 3 hours—3 credits.

Ed 370 Comparative Education—An analysis and comparison of the educational systems of the United States, France, England, Germany, the Soviet Union, and other countries in regard to teacher preparation, curriculum, school administration, and educational purposes. 3 hours—3 credits.

Ed 380 Problems in Education—This course deals with problems in curriculum, organization, planning and methods studied in relation to their historical, philosophical, psychologist, and sociological background. 3 hours—3 credits.

Ed 403-404 History and Philosophy of Education—An analysis of the history of education from early Greek times to the present; a study of the nature of knowledge and the theories of great thinkers as to what the final goals of education should be and how they may be obtained; provides a background from which the student can formulate his philosophy of education. 3 hours—6 credits.

Ed 421 Teaching Speech in Secondary Schools—A study of the problems, methods, and materials in the teaching of speech in secondary schools with a primary emphasis upon classroom procedures; analysis of textbook, periodical and pamphlet materials; tests and rating scales; relationships to extra class speech activities. 3 hours—3 credits.

Ed 422 Speech Correction and the Classroom Teacher—Training in the recognition, diagnosis, and treatment of minor speech defects with discussion of major speech defects; reinforcing and following up the work of the professional speech therapist. 2 hours—2 credits.

Ed 441 Professional Practicum Including School Law—This course is designed to prepare students for their practice teaching. Techniques of teaching and lesson planning for the student's special field are considered. Pennsylvania school laws relevant to the work of the classroom teacher are studied. Observations are made of various classroom procedures. 6 hours—3 credits.

Ed 451 Practice Teaching—Observation, participation, and practice teach-

ing in the public schools; special attention to lesson plans, discipline, classroom technique, and the measuring of results; conferences and discussions. (The student is required to achieve an average grade of C in any field in which he wishes to do practice teaching.) *Prerequisite Ed 315-316 and 441 for elementary teachers, Ed 331-332 and 441 for secondary teachers.* 8 hours (or equivalent)—6–8 credits. (The student teacher is required to provide for his own transportation.) Fee, $60.00.

Ed 499 Senior Seminar in Education—Designed to acquaint seniors who wish to do graduate work with methods of research in Education. Advanced students are given an opportunity to apply the principles of research in a research project. *Prerequisite—Ed 441 and permission of the instructor.*

Special Education

Ed 210 Special Class Methods—This course is concerned with the theory and application of instruction of the mentally retarded. Critical examination of the diagnosis and classification of mental retardation provide the basis for the intensive study of differential aims, organizations, curriculums, and techniques related to teaching the special classes. 3 hours—3 credits.

Ed 310-320 Psychology of Exceptional Children—An overall consideration of children who deviate from the generally accepted patterns of expected developments, with special attention to problems of mentally superior, mentally retarded, and physically handicapped children. *Prerequisite Ps 101-102.* 3 hours—6 credits.

Ed 330-340 Arts and Crafts for Special Classes—Especially organized to meet the needs of teachers of special education; instruction in the development of the child with crafts from the very simple to more advanced methods in woodwork, plastic, cork, weaving, paper, novelties, leather, use of salvage material, household repairs, and clay modeling. 3 hours—6 credits.

Ed 350 Special Class Teaching—Observation, classroom teaching, and conferences in special education with supervisors, for a period of one semester. *By appointment*—1 credit. Fee $45.00 including tuition.

Geography

Geog 103-104 World Geography—A study of the physical factors in man's environment and his adjustment to them; the world's landform features and mineral resources, climates, soils, and vegetation types and the political, economic, and social responses of man to them. 3 hours—6 credits.

Geog 106 Geography of United States and Pennsylvania—A study of the geography of the United States including physiography, climate, soil, natural vegetation, cultural, economic and political patterns, special attention to the geography of Pennsylvania. 3 hours—3 credits.

Physical Science

PhySc 203-204 Physical Science—An introduction to the scientific view of the physical world; topics in astronomy, meteorology, and geology during the first semester and in chemistry and physics during the second. 3 hours—3 or 6 credits.

Orientation

Or 100 Orientation—The orientation course is designed to help the student make the rather difficult transition from high school to college, to help him find meanings in college and life, and to start him on the road that will lead to a satisfactory system of values. It is a course in which the basic topics relevant to the beginning of college life and work are discussed. Among the subjects are: use of the library; methods of study; approved social usages; college rules and requirements. No credit.

Department of English

The Department of English, in keeping with the objective of the College, recognizes its responsibility of not only training students in the effective use of the English language, but also contributing to their cultural growth. Accordingly, proficiency in the communication skills—reading, writing, speaking, and listening—and in creative reading and appreciation of literature, contributing to the all-around development of the students, may be considered as fundamentally the aims of the instructional program.

Major Requirements: A minimum of thirty-eight (38) semester hours, including the courses—En 101-2, En 201-2, En 301-2, En 305-6, En 321 (14 hrs. selected from En 307, 308, 310, 401, 402, 405, 406, 408), En 499.

Suggested Program—B.A. in English

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Music 211	3	–
Humanities 251	–	3
Physical Education	1	1
Foreign Language	3	3

Sophomore Year	1st Sem.	2nd Sem.
English 201-2	3	3
English 301-2	2	2
Foreign Language	3	3
Science	4	4
History 205-6	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 305-6	2	2
English 321	2	–
History and/or Pol. Sci.	3	3
Social Science	3	3
Advanced English courses (307, 308, 309, 310, 401, 402, 405, 406, 407, 408)**	6	6
General Electives	2	4

Senior Year	1st Sem.	2nd Sem.
English 499	2	–
Advanced English courses (307, 308, 309, 310, 401, 402, 405, 406, 407, 408)**	6	6
Philosophy 352	3	–
General Electives	3	6

* Freshmen who qualify through placement examination for En 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the College's basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** One course in Modern Literature is required in the Junior or Senior year (offered only on alternate years).

Courses of Instruction

En 100 Developmental Reading—A course designed to increase efficiency in study-reading techniques, comprehension, and rate. Individual counseling and guidance is an integral part of the program. No credit.

En 101-102 English Composition—A course in the principles of writing compositions, mostly in expository and persuasive discourse. Second semester is devoted largely to writing the documented library research paper. 3 hours—6 credits.

En 103 Advanced Composition—A one-semester acceleration of En 101-102, with enrollment open only to students earning superior scores in the college English-achievement tests. 3 hours—3 credits.

En 201-202 Survey of English Literature—A study of selections in poetry and prose from the Anglo-Saxon period to the present time; aims to acquaint the student with the major movements in literature and to develop an appreciation of literature itself. 3 hours—6 credits.

En 207-208 World Literature—A study of a selected group of writings from Eastern and Western cultures and their relation to our present world. 3 hours—6 credits.

En 215-216 Journalism—An introductory course including a study of newspapers and news-values, with emphasis on effective news reporting through the analysis and writing of news stories, editorials, and feature articles; designed

for the college newspaper staff member and the prospective teacher interested in school publication procedures. 3 hours—6 credits.

En 301-302 American Literature—Representative authors and periods from the Colonial Period to the present, a careful study of the major part of the work of the best writers. 2 hours—4 credits.

En 305-306 Shakespeare—A consideration of the origin and development of the English drama together with a study of the chief plays of Shakespeare. *Prerequisite En 201-202.* 2 hours—4 credits.

En 307 The Sixteenth Century—Tudor prose and poetry. Elizabethan and Jacobean drama. *Prerequisite En 201-202.* 3 hours—3 credits.

En 308 The Seventeenth Century—A study of English literature from the death of Elizabeth I to 1660, including Milton but not the dramatists. *Prerequisite En 201-202.* 3 hours—3 credits.

En 309 Eighteenth Century I—The poetry and prose of Restoration England and the Augustan Age to 1745. *Prerequisite En 201-202.* 3 hours—3 credits.

En 310 Eighteenth Century II—A study of English poetry and prose from 1745 through the non-Romantic Regency, including the novel of eighteenth-century England. *Prerequisite En 201-202.* 3 hours—3 credits.

En 313-314 Problems in Play Directing—A practical course for teachers and directors of drama in elementary and secondary schools, in churches, or community theatres; general and historical techniques in directing together with modern forms of arena and space staging. Practical experience, on production staff, first semester; direction of one-act play, second semester. 2 hours—4 credits.

En 315 Advanced Journalism—A study of the advanced aspects of journalism with particular emphasis on copy reading and newspaper make-up. *Prerequisite En 215-216.* 2 hours—2 credits.

En 318 Creative Writing—A course to instruct the student in the production of original written works in the shorter literary forms of his choice, and to acquaint him with literary terminology. *Admission by consent of the instructor.* 3 hours—3 credits.

En 321 Speech—A study of effective speaking; emphasis upon the correction of speech defects, proper articulation, poise, and interpretative reading; speaking from notes, and preparing outlines. 2 hours—2 credits.

En 322 Advanced Speech—A consideration of processes and techniques of effective communication practice; drill in parliamentary procedure, discussion, speaking, listening, semantics, and radio speaking. *Prerequisite En 321.* 2 hours—2 credits.

En 323 Argumentation and Debate—A study of the theory of influencing belief and conduct; procedures in argumentative speech from gathering material and analyzing the proposition through delivery and rebuttal. 2 hours—2 credits.

En 333 Intercollegiate Debate—Satisfactory participation for one year in competitive intercollegiate debate; permission of director of forensics required. 2 hours—2 credits.

En 342 Advanced Linguistics—An investigation of English language and usage to the present time, with stress upon etymology, phonetics, morphology, syntax, and applied linguistics. 3 hours—3 credits.

En 401 The Romantic Movement—Poetry and prose from 1786 to 1830 (after a preliminary examination of the "pre-Romantic movement") with major emphasis upon Burns, Wordsworth, Coleridge, Lamb, DeQuincey, Shelley, Byron, Keats, and Hazlitt. *Prerequisite En 201-202.* 3 hours—3 credits.

En 402 The Victorian Period—A study of poetry from Tennyson to Yeats and non-fictional prose from Carlyle to Wilde. *Prerequisite En 201-202.* 3 hours—3 credits.

En 405 Contemporary Poetry—A consideration of the chief American and British poets since 1890 with emphasis upon close-reading of the texts. *Prerequisite En 201-202.* 3 hours—3 credits.

En 406 Modern Drama—A study of the major European and American dramatists from Ibsen to the present. *Prerequisite En 201-202.* 3 hours—3 credits.

En 407 The Nineteenth Century English Novel—A study of selected masterpieces as works of prose art, as turning points in the development of the form, and as reflections of the age. *Prerequisite En 201-202.* 2 hours—2 credits.

En 408 Contemporary Novel—A study of the work of major British and American novelists with emphasis upon the development of the novel as an art form. *Prerequisite En 201-202.* 2 hours—2 credits.

En 411-412 Dramatic Production—The art of producing plays. The first semester includes: staging and costume design and practicum; the second semester, lighting and make-up, lectures and laboratory. Each student assists in a major production, the first semester, and directs a one-act play, the second semester. 2 hours—4 credits.

Independent Study—This course is designed to give the individual student an opportunity to pursue work in an area of major interest under the guidance of a member of the Department. *Admission by consent of the instructor and the Chairman of the Department.* 2 hours—2 credits.

Fine Arts

The courses in Fine Arts are designed to give students an insight into the meaning and importance of the visual arts. No major is offered in this area.

Hu 211 Oil Painting—Instruction in the practices of studio easel painting in the oil medium, with emphasis on still-life compositions. Open also to non-college enrollees. *Admission by consent of instructor.* 3 hours—3 credits.

Hu 251 History and Appreciation of the Fine Arts—A study of the fine arts in the modern Western epoch and the underlying aesthetics that have variously characterized them. 3 hours—3 credits.

Hu 350 Cultural Arts—Designed to treat the material of Hu 251 on a seminar basis through world travel or in a formal class situation. 3 credits.

Hu 361-362 Great Books—This course is designed to introduce the student to the great ideas of the Western world by reading in primary sources the literary works of major contributors to our Western intellectual heritage. Wide reading and a discussion of the material read will constitute the primary requirements of the class. Since the success of this type of course depends upon a relatively small number of participants, the size of the class will be limited. Open to juniors and seniors. 2 hours—4 credits.

Department of History and Political Science

The study of history fulfills the need of man to orient himself in time. The historian believes that the present is what the past has made it and that no real understanding of the conditions and problems of life today is possible without a knowledge of the forces and events which shaped them.

Aside from the cultural opportunities offered by history courses, they offer a student opportunities to develop in three ways that will be useful to him every day regardless of his future place in life: he can learn to read critically, he can learn to write effectively, and he can learn to produce a synthesis of the knowledge thus discovered so that the relationships between fact and ideas can be comprehended in a meaningful pattern.

The aim of the History and Political Science Department is in harmony with the basic objective of the liberal arts, i.e., to produce graduates broadly and humanely educated and prepared through intellectual discipline to assume a career in any of the professions, business, or government service. In addition, the program offers a sound preparation for those qualified students who wish to pursue further study at the graduate level.

Major Requirements: A minimum of thirty-two (32) semester hours is required for the History and Political Science Major.

Social Science Majors should choose their electives in such a way as to assure a minimum of six (6) hours in each of the following: Economics, Sociology, and Political Science. Minimum number of semester hours required in the field—forty-two (42).

Secondary Education Majors should consult that department for certification requirements.

Suggested Program—B.A. in History and Political Science, B.A. in Social Studies

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Humanities 251	3	–
Music 211	–	3
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem
English 201-2 or 207-8	3	3
History	3	3
Economics and/or Scc.	3	3
Foreign Language	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
History 303-4	3	3
Literature	2	2
History and Political Science Electives	6	6
General Electives	4	2

Senior Year	1st Sem.	2nd Sem.
Philosophy 351 or 352	3	–
Political Science 352	–	3
History 499	2	–
General Electives	10	12

* Freshmen who qualify through placement examination for En 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the College's basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

A. History

Hi 101-102 History of Western Civilization—A brief survey of the development of Western Civilization from its earliest beginning to the present day; stress on long-range movements and trends; aims to give the student a basic knowledge of his own political, economic, and cultural background. 2 hours—4 credits, or 3 hours—6 credits.

Hi 203 History of the Renaissance and Reformation—A survey of the history of Europe from about 1400 to 1648; a portrayal of the transition of European society, institutions, and thought from the Middle Ages to modern times. 3 hours—3 credits.

Hi 204 History of Europe During the 17th and 18th Centuries—The age of absolutism in Europe from 1648 to Napoleonic times; emphasis on the politics and diplomacy of the older European powers as well as the arrival of Russia and Prussia into the family of nations, the intellectual foundations of political and economic liberalism as a background to the 19th century, and the imperial struggles between European powers. 3 hours—3 credits.

Hi 205-206 English History—A consideration of the entire span of English History from the most ancient times to the present with special attention to the development of parliamentary government. 3 hours—6 credits.

Hi 207 Nineteenth Century Europe—A portrayal of the history of Europe from the Congress of Vienna to World War I, with particular emphasis on the political, social, economic and diplomatic development of Europe in this period. 3 hours—3 credits.

Hi 208 Twentieth Century Europe—A general survey of World War I and a characterization of twentieth century society; the focus is on the rise of totalitarian ideologies, the plight of democracy, the great depression and the effect of both World Wars. 3 hours—3 credits.

Hi 303-304 History of the United States and Pennsylvania—An introductory survey of major developments and movements in the history of the United States with consideration of social, cultural, political, and economic trends; attention to the history of Pennsylvania as it reflects significant trends in the history of the United States. 3 hours—6 credits.

Hi 305 Economic History of the United States—A study of the developments of American economic life from the agrarian economy of the Colonial Period to the highly complex industrial economy of the present day. *Prerequisite Hi 303-304 or permission of the instructor.* 3 hours—3 credits.

Hi 306 Recent History of the United States—The development of the United States since 1890 with emphasis on social, intellectual, and economic implications. 3 hours—3 credits.

Hi 313-314 Russian History—The Development of Russia from its medieval origins to the present, with emphasis placed on the development of Czarist institutions, and on Russia since the revolution of 1917. 3 hours—6 credits.

Hi 403-404 Diplomatic History of the United States—A study of the major developments in the international relations of the United States from colonial times to the present day. *Prerequisite Hi 303-304, or permission of the instructor.* 2 hours—4 credits.

Hi 406 European Diplomacy Since the Congress of Vienna—A survey of the conduct of European diplomacy since the fall of Napoleon to the present day with emphasis on the period since 1870 as the diplomacy leading up to both World Wars and the peace negotiations following these wars are presented. 3 hours—3 credits. Offered upon sufficient demand.

Hi 407 The Ancient World—A survey of the Ancient Orient, followed by detailed consideration of Greece, Hellenistic imperialism, Rome, and the rise and fall of the Roman Empire. Emphasis on social, political and cultural problems of the general period. 3 hours—3 credits.

Hi 408 Medieval History—A survey of the History of Europe from 300 A.D. to 1500 A.D.; development and subsequent decline of medieval institutions; emphasis on the religious, political, economic and intellectual currents in the West and to some extent in the East, on the development of the Christian Church and Christian thought and philosophy in their historic setting, and on the early foundations of Modern Europe. 3 hours—3 credits.

Hi 499 The Senior Seminar—A study of the methods employed in historical research, the development of historical writing, and some of the dominent views or explanations of history. A major research project will be required. Required for all senior majors. 2 hours—2 credits.

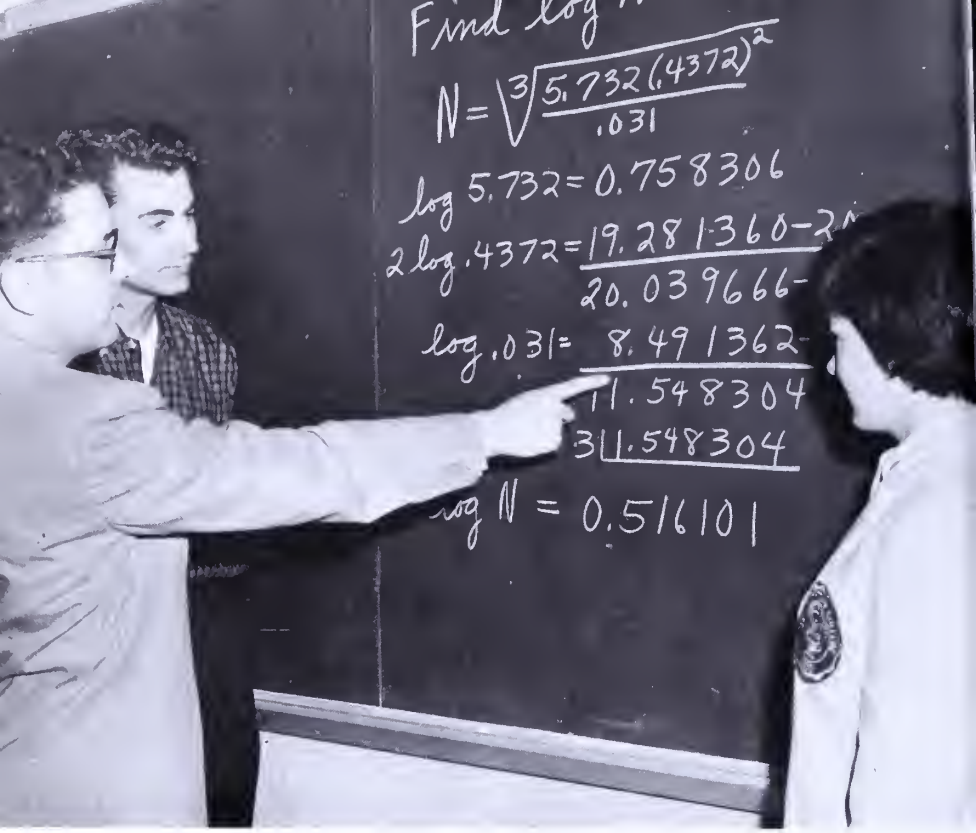
Independent Study—A program of individual study for advanced students. Given by permission only and under the supervision of the department. Credit: 1 or 2 hours.

B. Political Science

PS 313 International Relations—The theory and practice influencing the relations between states with special emphasis on the more important international organizations. 3 hours—3 credits.

PS 352 American National Government—A survey of the political institutions of the United States and their evolution to the present day with emphasis on the contemporary period. 3 hours—3 credits.

PS 414 Comparative European Governments—A survey of the political institutions of the various European states with consideration to their historical development; stress on the governments of Russia, Germany, France, England, and Italy; a seminar course when class size permits. *Prerequisite Hi 207 and 208 or permission of the instructor.* 2 hours—2 credits.



Department of Mathematics

The courses in mathematics are designed to prepare the mathematics major for teaching or graduate school; to furnish the students of engineering and science the necessary mathematical background for use in their fields; and to give students of other departments the experience of mathematical reasoning and acquaintance with mathematical methods.

Major Requirements: For mathematics majors in the B.S. or B.A. programs, a minimum of fifteen (15) of the eighteen (18) semester hours listed in the Junior and Senior years is required.

For students obtaining secondary education certification, a minimum of thirty (30) hours in mathematics is required with eleven (11) of these hours in courses numbered 300 and above.

Upon recommendation of the adviser, students may elect Ma 153, 154, 164, and 166 instead of Ma 103 and 164.

If a student chooses to elect more than one of the following three (3) courses: Ma 174, 166, or BA 343, he will receive no credit beyond the three (3) semester hours granted for the first course taken.

Suggested Programs—B.A. or B.S. in Mathematics

A. Bachelor of Arts in Mathematics

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Mathematics 103	4	–
Mathematics 164	–	4
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or 207-8	3	3
Mathematics 201-2	4	4
General Psychology 101-2	2	2
Foreign Language	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Mathematics 303	3	–
Mathematics 304	–	3
Mathematics 311	3	–
Mathematics 314	–	3
History and/or Pol. Sci.	3	3
Literature	2	2
Humanities 251 or Music 211	3	–
Electives	3	4

Senior Year	1st Sem.	2nd Sem.
Mathematics 401-2	3	3
Philosophy 351 or 352	3	
Electives	9	12

B. Bachelor of Science in Mathematics

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
Mathematics 103	4	–
Mathematics 164	–	4
Foreign Language	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2, or 207-8	3	3
Mathematics 201-2	4	4
General Psychology 101-2	2	2
Foreign Language	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Mathematics 303	3	–
Mathematics 304	–	3
Mathematics 311	3	–
Mathematics 314	–	3
Science**	4	4
Social Science including one course in History or Political Science	3	3
Electives	3	3

Senior Year	1st Sem.	2nd Sem.
Mathematics 401-2	3	3
Philosophy 351 or 352	3	–
Science**	4	–
Electives	5	12

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** The requirement in science is fourteen (14) semester hours, including one year beyond the survey course or eighteen (18) semester hours, including one semester beyond the survey course.

Ma 103 MATHEMATICAL ANALYSIS—A modern, unified presentation of algebra and trigonometry; a foundation course for further study in mathematics, physical science, or engineering. *Prerequisite Acceptable mathematics placement test score.* 4 hours—4 credits.

Ma 151 INTERMEDIATE ALGEBRA—Designed for students who do not have the necessary secondary school work in mathematics to prepare them for College Algebra. The course includes basic principles and drill necessary for the study of College Algebra or Mathematics of Business. 3 hours—3 credits. Not applicable for hour requirements for the mathematics major.

Ma 153 COLLEGE ALGEBRA—A fundamental course in college mathematics serving as a basis for further study in mathematics at various levels. *Prerequisite Ma 151 or acceptable mathematics placement test score.* 3 hours—3 credits.

Ma 154 TRIGONOMETRY—The concepts of plane triangle solving and analytical trigonometry with stress on the latter; serves as a background for further mathematics and science courses. *Prerequisite Ma 153 or concurrently with Ma 153 by permission of the Mathematics Department.* 3 hours—3 credits.

Ma 162 MATHEMATICS OF BUSINESS—Specific elementary topics with business applications: simple interest, bank discount, credit charges, chain discounts, logarithmic computations, and elementary compound interest. *Prerequisite Ma 151.* 3 hours—3 credits. Not applicable for hour requirements for the mathematics major.

Ma 164 ANALYTICAL GEOMETRY—A course of coordinate geometry using algebraic methods entirely; emphasis on general curve analysis and conic sections; foundations of three dimensional systems. *Prerequisite Ma 154.* 4 hours—4 credits.

Ma 166 HIGHER ALGEBRA—A continuation of work in algebra including the following topics: theory of equations, determinants, permutations and combinations, probability, and mathematical induction. *Prerequisite Ma 153.* 3 hours—3 credits.

Ma 168 MATHEMATICS OF FINANCE—Introductory phases of finance on a non-calculus level covering the following topics: simple interest, logarithmic computation, compound accumulation and present value, general annuities, certain bonds, sinking funds, and introductory life insurance and life annuities. ***Prerequisite Ma 153.*** **3 hours—3 credits.**

Ma 174 SURVEY OF MATHEMATICS—Designed as a terminal course for students who will not earn more than a total of 6 semester hours credit in mathematics. The course includes the following topics: ratio, proportion, and variation; an introduction to finance, probability, and statistics; and glimpses of the following areas of modern mathematics: the basis of our number system, theory of numbers, and logic. *Prerequisite Ma 151 or acceptable mathematics placement test score.* 3 hours—3 credits.

Ma 201-202 CALCULUS—Differential and integral calculus with applications. Both differential and integral calculus are studied in the first semester. The second semester includes further study of both and a study of infinite series. *Prerequisite Ma 103 and Ma 164 or Ma 153, 154, and 164.* Ma 164 also is highly recommended for those who have not taken Ma 103. 4 hours—8 credits.

Ma 303 MODERN ALGEBRA—Elementary theory of sets, integral domains, polynomial domains, fields and groups. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 304 Linear Algebra—Vector spaces, matrices, systems of linear equations, and linear transformations in a vector space. *Prerequisite Ma 201-202.* 3 hours—3 credits.

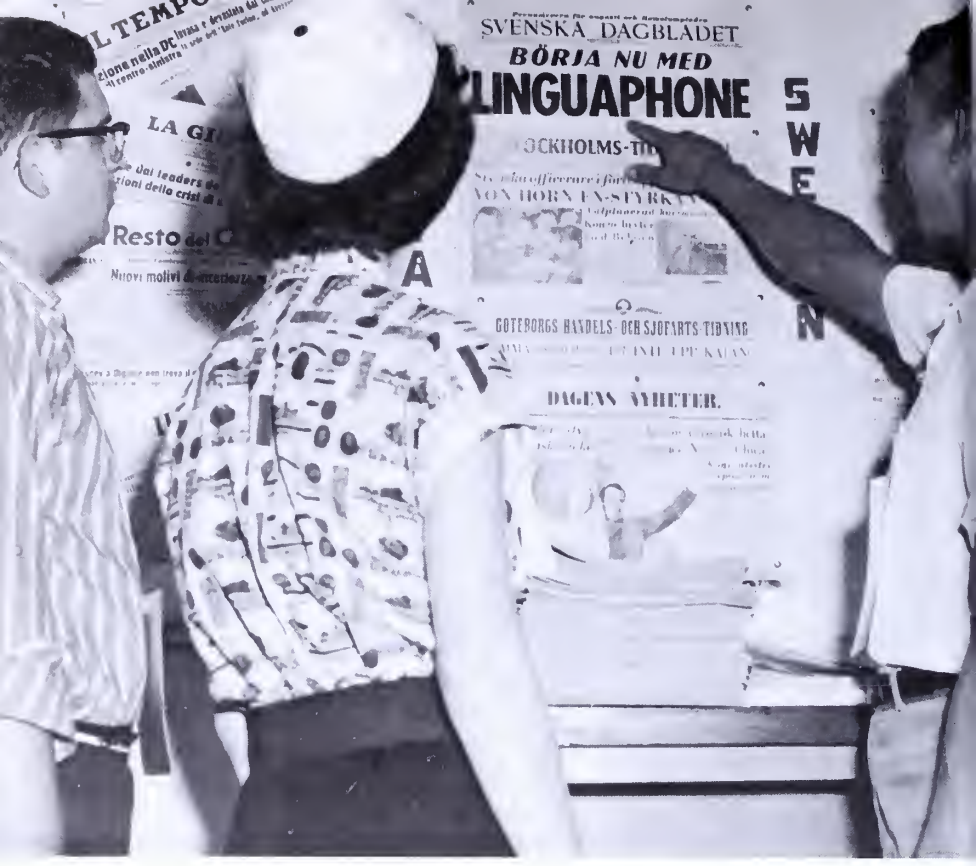
Ma 311 Differential Equations—The solution of ordinary differential equations, covering first and second order equations and linear equations; basic infinite series methods; stress on theory and on applications in science and engineering. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 314 Mathematical Statistics—A background course for intensive study at either the applied or theoretical level; the concepts and methods of elementary probability and statistics; proofs of theorems presented when possible, applications covered to a limited extent. *Prerequisite Ma 201-202.* 3 hours—3 credits.

Ma 401-402 Advanced Calculus—Critical study of functions, limits, continuity, derivatives, and integrals. Theory of infinite series and special topics. Emphasis on theory rather than applications. *Prerequisite Ma 201-202.* 3 hours—6 credits.

Ma 499 Seminar in Mathematics—Designed to acquaint future teachers with some of the new mathematics programs and to discuss various methods and techniques of teaching mathematics. Open only to students concurrently registered for Ed 451. 2 hours—2 credits.

B. Mary Royer Hall—Residence for Women



Department of Modern Languages

The Department of Modern Languages offers instruction in French, German, and Spanish. The courses are planned to meet the demand for practical use of the language as well as the cultural needs of all students.

The faculty of the language department has long been aware of the urgent need for people well trained in foreign languages, and the program of language instruction has been broadened and, at the same time, made more practical in order to serve the special needs of the science students as well as teachers for elementary and secondary levels of language instruction.

The department also prepares students to major in French, German, or Spanish at the graduate level.

Major Requirements: Total number of semester hours required in the department—twenty-four (24) in the first language and twelve (12 in the second.

Secondary and Elementary Education Majors should consult the Department of Education for certification requirements.

Suggested Program—B.A. in Modern Languages

Freshman Year	1st Sem.	2nd Sem.
German, French, or Spanish 101-2 or 201-2**	3	3
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Physical Education	1	1
Music 211	3	–
Humanities 251	–	3

Sophomore Year	1st Sem.	2nd Sem.
German, French, or Spanish 201-2 or 203-4***	3	3
Second Language	3	3
English 207-8	3	3
History 203-4	3	3
Science	4	4
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Language Lit. 301-2	3	3
Second Language	3	3
English 321	2	–
History 207-8	3	3
Sociology or Economics	3	3
Electives	3	5

Senior Year	1st Sem.	2nd Sem.
Language Lit. 305-6	3	3
Philosophy 351 or 352	3	–
Electives	8	9

* Freshmen who qualify through placement examination for En 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the College's basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** Level, Basic or Intermediate, depending on placement test results.

*** Intermediate or Advanced Major Language depending on placement test results and successful completion of the freshman year course.

Courses of Instruction

A. Esperanto

Es 101 Esperanto—A study of the international language, Esperanto, including grammar, readings, and conversation. A student having completed this course satisfactorily may receive a diploma issued by the Esperanto Association of North America. 3 hours—3 credits.

B. French

Fr 101-102 Basic French—Designed for students beginning French in college; includes drills in pronunciation, patterns of conversation, grammar, dictation, and the reading of simplified stories. No prerequisite. 3 hours—6 credits.

Fr 201-202 Intermediate French—A review of the essentials of grammar, practice in conversation, and the reading of representative works of French literature. *Prerequisite Fr 101-102 or qualifying grade in placement test.* 3 hours—6 credits.

Fr 203 Advanced French—Study of vocabulary, idiomatic expressions, sentence structure; writing themes and reading French masterpieces of various types and periods. Designed as a transition course from Intermediate French to French literature courses. *Prerequisite Fr 201-202 or qualifying grade in placement test.* 3 hours—3 credits.

Fr 204 Early French Literature—Reading of French literature from the earliest times to the end of the Sixteenth Century. Particular attention to such authors as Villon, Rabelais, Ronsard, and Montaigne. *Prerequisite Fr 203 or permission of instructor.* 3 hours—3 credits.

Fr 301-302 Literature of the 17th and 18th Centuries—Works of Descartes, Corneille, Racine, Moliere, Pascal, Marivaux, Montesquieu, Voltaire, Rousseau, and others. *Prerequisite Fr 201-202.* 3 hours—6 credits.

Fr 305-306 Literature of the 19th and 20th Centuries—Works of Chateaubriand, Lamartine, Hugo, Balzac, Stendhal, Flaubert, Sartre, Proust, Camus, and others. *Prerequisite Fr 201-202.* 3 hours—6 credits.

C. German

Ge 101-102 First Year German—Drill in pronunciation, the essentials of grammar, practice in speaking, writing, and translation from prose selections. 3 hours—6 credits.

Ge 201-202 Second Year German—A review of grammar and the translation of plays and novels. *Prerequisite Ge 101-102 or two years of high school German.* 3 hours—6 credits.

Ge 301-302 Third Year German—Beginnings of German literature through the Reformation and Renaissance. *Prerequisite Ge 201-202.* 3 hours—6 credits.

Ge 305-306 German Classicism and Romanticism—Emphasis upon authors such as Klopstock, Lessing, Goethe, Schiller, Grillparzer, and Heine. *Prerequisite Ge 201-202.* 3 hours—6 credits.

D. Spanish

Sp 101-102 Basic Spanish—The study of elementary grammar, everyday vocabulary, idiomatic expressions, and sentence structure. Emphasis on pronunciation and aural training. 3 hours—6 credits.

Sp 201-202 Intermediate Spanish—Further study of basic grammar, vocabulary, idiomatic expressions, and sentence structure. Emphasis on oral expression and conversation. *Prerequisite Sp 101-102 or qualifying grade in placement test.* 3 hours—6 credits.

Sp 203 Advanced Spanish—Advanced study of grammar, vocabulary, expressions, and sentence structure. Emphasis on reading comprehension and composition. *Prerequisite Sp 201-202 or qualifying grade in placement test.* 3 hours—3 credits.

Sp 204 Survey of Spanish American Literature—An historical survey of the major literary and cultural developments of Spanish America from the Conquest to the present time. *Prerequisite Sp 203 or permission of instructor.* 3 hours—3 credits.

Sp 301-302 Spanish Literature to 1700—A survey of the principal literary trends and a study of the major authors of Spain and Spanish America up to the Golden Age. *Prerequisite Sp 201-202.* 3 hours—6 credits.

Sp 305-306 Spanish Literature from 1700—A survey of the principal literary trends and a study of the major authors of Spain and Spanish America from 1700 to the present day. *Prerequisite Sp 201-202.* 3 hours—6 credits.

Department of Music

The Department of Music offers many opportunities for the study of music both in groups and by individual instruction. The close relationship existing between literature and the arts makes the college a place where the two may be advantageously studied together.

The student who majors in music at Elizabethtown College, because of his particular aptitudes and abilities, will obtain a broad liberal arts and professional education within an environment concerned with the social, moral, and spiritual life of each student. It is expected that through the study of music education a teacher will be able to pass on to younger generations a love for musical beauty, the knowledge of music as an art, and a capacity to participate in music as a beneficial social activity.

Students desiring to meet certification requirements for teaching music in the public schools of Pennsylvania will find a program geared to qualify them to teach both vocal and instrumental music at the elementary and secondary levels.

Major Requirements: The following courses are required of all Music Education Majors: Mu 101-2, Mu 103-4, Mu 201, Mu 203-4, Mu 208, Mu 311, Mu 312, Mu 316, Mu 321-22, Mu 331, Mu 333, Mu 340, Mu 342, Mu 407, Mu 415, Mu 441-42, Mu 489-90.

Music education majors are required to take two private half-hour lessons per week in Applied Music during the first two years and one half hour lesson per week during the final two years. They are also expected to obtain both vocal and instrumental ensemble credit.

Vocal and piano proficiency examinations are required of all music education majors, taken upon application to the Director of Music Education.

Before being permitted to do student teaching in music, a student must have the approval of the Head of the Education Department and the Director of Music Education.

Suggested Program—B.S. in Secondary Education

(Music Education Major)

Freshman Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
Second	1	1
English 101-2*	3	3
Bible 101-2	2	2
Science	4	4
Music 101-2	3	3
Music 103-4	1	1
Music Ensemble	1	1
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
Second	1	1
Foreign Language	3	3
English 201-2 or 207-8	3	3
Music 201	3	–
Music 203-4	1	1
Music 208	–	2
General Psychology 101-2	2	2
Education 154	–	3
Music Ensemble	1	1
Bible or Philosophy Elec.	2	–
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
History 303-4	3	3
Education 203	3	–
Music 311	3	–
Music 312	–	3
Music 321-22	2	2
Music 316	–	1
Instrumental Classes		
Music 331	1	–
Music 340	–	2
Music 342	–	2
Music 333	1	–
Music Ensemble	1	1
Humanities 251	3	–

Senior Year	1st Sem.	2nd Sem.
Applied Music		
First	1	1
Music 407	2	–
Music 441-42	3	3
Music 415	1	–
Music 489-90	4	4
Electives**	3	3

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** Liberal arts electives, unless other permission is obtained.

Courses of Instruction

A. Music Courses

Mu 101-102 Harmony—A study of the rhythmic, melodic, and harmonic components of music, including scales, chord structures, non-chordal tones, and simple modulations. Emphasis upon analysis and creative writing. Three hours credit each semester.

Mu 103-104 Sight-Singing and Ear Training—A course designed to cultivate aural and oral skills in music. Includes singing and writing of rhythmic, melodic, and harmonic progressions dictated by voice or piano. One hour credit each semester.

Mu 201 Advanced Harmony—A continuation of Music 101-102 involving more intensive and detailed study of harmonic techniques of the 18th–20th centuries. Survey and application of seventh, ninth, and eleventh chords; borrowed and altered chords; and more involved modulations. Stress upon individual creative work and composition throughout the course. *Prerequisite Mu 101-102.* Three hours credit.

Mu 203-204 Advanced Sight-Singing and Ear Training—A continuation of Music 103-104 involving further development of sight-reading and dictation abilities. Three and four-part writing stressed in the second semester. Extensive part-singing training an integral phase of the course. *Prerequisite Music 103-104.* One hour credit each semester.

Mu 208 Keyboard Harmony—A course designed to develop skills in harmonizing melodies at the piano using various appropriate chord structures, modulatory progressions, and suitable piano accompaniments for given melodies. Some attention given to improvization techniques. *Prerequisite Music* 201. Two hours credit.

Mu 211 History and Appreciation of Music—A study of historical art periods with particular attention given to great composers and their outstanding compositions. 3 hours—3 credits.

Mu 212 Church Music—A study of the music of the Christian Church—historical, theoretical, and practical—preparing the student for better musical participation or leadership in any Protestant denomination. Two hours credit.

Mu 303 Fundamentals of Music—A basic study of the science of sound; elements of notation; voice and choirs; instruments, band and orchestras; the directing of group singing; and a brief survey of the history of music. Three hours credit.

Mu 311 Music in the Elementary School—A thorough study of music objectives, materials, and methods for elementary schools through singing, rhythmic, creative, and listening programs. Detailed study and use of recent school music series. Observation and laboratory apportunities included. *Prerequisite Music 208.* Three hours credit.

Mu 312 Music in the Secondary School—Methods and materials for secondary music classes. Attention is given to adolescent voice problems, choral literature appropriate for school groups, general music class materials, organizational procedures, and class planning. Observation and laboratory experience included. Three hours credit.

Mu 316 Instrumental Methods and Materials—A course dealing with problems of administering a school instrumental program. Teaching methods and materials for large groups, class, and private lessons will be presented and evaluated. One hour credit.

Mu 321-322 Choral and Instrumental Conducting—A course designed to give students knowledge and facility in directing choruses, bands, and orchestras. Conducting techniques and problems, score reading, and interpretation will be emphasized. Two hours credit each semester.

Mu 331 Brass Class—A course including the method of tone production, fingerings or positions, care and repair, and methods and materials for teaching trumpet or cornet, French horn, baritone, trombone, and bass horn. One hour credit, two class meetings per week.

Mu 333 Percussion Class—A course including the methods of tone production, care and repair, and methods and materials for teaching snare drum, bass drum, cymbals, tympani, and other percussion instruments. One hour credit, two class meetings per week.

Mu 340 Woodwind Class—A course including the methods of tone production, fingerings, care and repair, and methods and materials for teaching flute, oboe, clarinet, bassoon, and saxophone. Two hours credit, three class meetings per week.

Mu 342 String Class—A course including the method of tone production, fingerings, care and repair, and methods and materials for teaching violin, viola, violoncello, and double bass. Two hours credit, three class meetings per week.

Mu 407 Form and Analysis—A study of the basic principles underlying musical forms with opportunity to analyze their application through auditory and visual music examples. *Prerequisites Music 203 and 208.* Two hours credit.

Mu 415 Music Literature for the Classroom—A course developing familiarity with vocal and instrumental literature appropriate for both elementary and secondary students as listeners. Emphasis upon classic, romantic and contemporary music with some attention to methods of presentation. One hour credit.

Mu 419 Counterpoint—A course emphasizing contrapuntal techniques of the 16th and 17th centuries through representative composers and original compositions. Attention to 18th century counterpoint as time allows. *Prerequisite Music 201.* Two hours credit.

Mu 440 Band Arranging—A course designed to develop the ability to compose or adapt music for concert or marching bands. A study of instrument ranges, limitations, and uses and effects in various combinations is included. *Prerequisites Music 201 and 208.* Two hours credit.

Mu 441-442 History of Music—A comprehensive survey of Western music from ancient to modern times. The course includes the evolution of musical forms, styles and media through careful consideration of music literature and the relation of musical to cultural and historical developments. Three hours credit each semester.

Mu 451 Piano Methods and Materials—This course acquaints the pianist with modern methods of piano teaching of children, youth, and adults, and includes a survey of teaching materials for various stages of progress. Teaching demonstrations will be a part of the course. Two hours credit.

Mu 489-490 Student Teaching in Music—Includes teaching experience in both elementary and secondary music classes. Instrumental and vocal opportunities available. Conferences, observation, and teaching included. Eight hours credit.

Teaching of Music in the Elementary School (for Elementary Education majors) See Education 304

B. Applied Music and Music Organizations

A maximum of eight semester hours in Applied Music and/or Music Organizations may be applied towards an A.B. or B.S. degree (except music education majors). No credit in music organizations is given unless attendance at rehearsals and public performances is satisfactory and unless participation extends over the entire school year.

PIANO, VOICE, ORGAN, BAND AND ORCHESTRAL INSTRUMENTS (Private Instruction)

Students in Applied Music are accepted at any stage of progress, and are advanced as rapidly as their ability, industry, and thoroughness will permit. Technical exercises, etudes, and Classic. Romantic, and Modern pieces are indispensable elements of study at all times in instrumental applied areas. In Voice, the problems of vocal improvement, technique, breathing, and diction are constantly stressed. Songs and arias by Classical, Romantic, and Modern composers are used to develop taste and to build for each student a repertoire which will contain music appropriate for all occasions. One private lesson and five hours practice per week. One hour credit each semester.

CONCERT CHOIR—Open to any student—acceptance based upon audition at the opening of each school year. In addition to campus and TV performances prior to Christmas and participation in the annual Spring Concert, this group sings approximately twenty concerts in churches and schools in Pennsylvania and neighboring states each spring. 3 hours—2 credits per year.

CONCERT BAND—Open to any student—acceptance subject to approval by director—performs at home soccer games and on at least four other occasions—including May Day, the annual Winter and Spring Concerts, and an all-instrumental program. 3 hours—2 credits per year.

CHAPEL CHOIR—Open to any student. Performs sacred choral literature at College Chapel services. 1 hour—1 credit per year.

WOMEN'S CHORUS—Open to any female student who enjoys singing mostly secular music—performs at the annual Winter and Spring Concerts. 1 hour—1 credit per year.

MEN'S GLEE CLUB—Open to any male student who enjoys singing mostly secular music—performs at the annual Winter and Spring Concerts. 1 hour—1 credit per year.

CHORAL UNION—A combination of all vocal groups united for the presentation of great choral literature such as an oratorio. A limited number of rehearsals are projected. No credit.

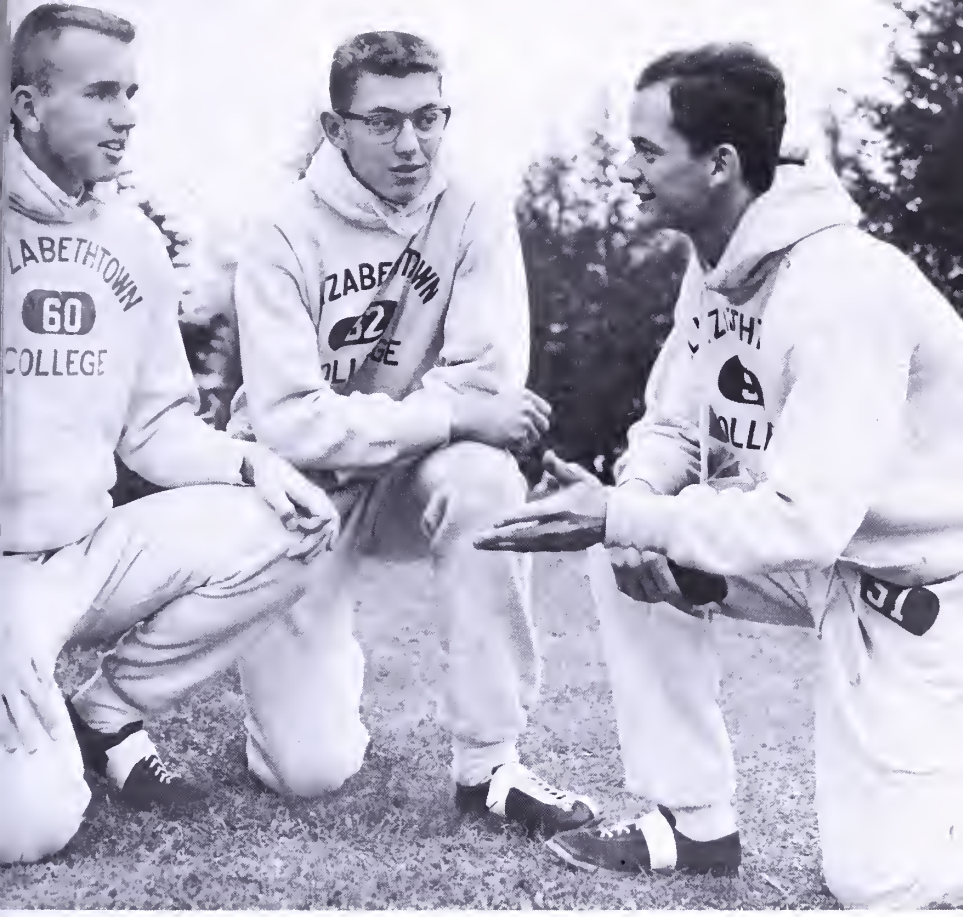
DUFAY SINGERS—A group of nine students selected from the Concert Choir to sing sacred and secular music from the 15th to 18th centuries. Small ensembles will be formed from this group to sing for deputation programs. The total group will perform on choir programs, assemblies, and special functions. 1 hour—1 credit per year.

LADIES' TRIO—A group selected from the Concert Choir to sing for deputation programs, choir programs, assemblies, and special functions. 1 hour—1 credit per year.

MEN'S QUARTET—A group selected from the Concert Choir to sing for deputation programs, choir programs, assemblies, and special functions. 1 hour—1 credit per year.

STRING ENSEMBLE—Open to any student who plays an instrument of the violin family—acceptance subject to approval by director. Students become familiar with the best of string quartet or string orchestra literature. 1 hour—1 credit per year.

SMALL ENSEMBLE—Vocal or Instrumental—Any students who are organized as an ensemble, who meet regularly under faculty supervision, and who have opportunities for public performance. 1 hour—1 credit per year.



Department of Physical Education and Health

The Department of Physical Education and Health affords an opportunity for all students to develop an interest in play and recreation that will be of use and pleasure to them during college and later life; to develop social and moral standards such as sportsmanship, teamwork, tolerance, and other character benefits which come from properly conducted play. It affords an opportunity for the development and maintenance of organic power of the body which will aid in good health. The department further provides facilities and opportunities for the improvement of neuro-muscular skills in coordination and correct use of the body.

The required program for all students in the first two years includes health instruction for good living practices, practice and instruction in the fundamental skills and elementary training in volleyball, touch football, wrestling, basketball, bowling, badminton, tennis, softball, soccer, and individual exercise. Swimming and aquatic activities are conducted by the college staff.

Basic Requirement: All students at Elizabethtown College are required to take at least four (4) semester hours of physical education courses. Most curriculums call for (PE 103-4, 203-4-men) and (PE 101-2, 201-2-girls) to be taken during the first two years of college unless otherwise prescribed in a specific program. Elementary Education Majors take PE 251 and 252.

Students participating actively in varsity sports may, at the discretion of the instructor, be excused from Physical Education classes for the duration of their participation and may receive credit for the Physical Education course in which they are enrolled.

Courses of Instruction

PE 103 Men's Physical Education—Instruction and practice in the fundamental techniques of soccer, wrestling, and volleyball. Interpretation of the playing rules of these sports. 2 hours—1 credit.

PE 104 Men's Physical Education—Instruction and practice in the fundamental techniques of elementary swimming, badminton, bowling, and softball. Interpretation of the playing rules of these activities and sports. 2 hours—1 credit.

PE 203 Men's Physical Education—Instruction and practice in the fundamental techniques of touch football, volleyball, and swimming activities. Interpretation of the playing rules of these sports. *Prerequisite PE 103-104.* 2 hours—1 credit.

PE 204 Men's Physical Education—Instruction and practice in the fundamental techniques of basketball, tennis, bowling, and archery. Interpretation of the playing rules of these sports and activities. *Prerequisite PE 103-104.* 2 hours—1 credit.

PE 101 Women's Physical Education—Instruction and practice in the fundamental techniques of field hockey, volleyball, and basketball. Stressing the development of basic skills and knowledge of these activities. 2 hours—1 credit.

PE 102 Women's Physical Education—Instruction and practice in the fundamental techniques of bowling, elementary swimming, and softball. Stressing the development of basic skills and knowledge of these activities. 2 hours—1 credit.

PE 201 Women's Physical Education—Instruction and practice in the fundamental techniques of tennis, soccer, and swimming. Stressing the development of basic skills and knowledge of these activities. *Prerequisite PE 101-102.* 2 hours—1 credit.

PE 202 Women's Physical Education—Instruction and practice in the fundamental techniques of badminton, bowling, and archery. Stressing the development of basic skills and knowledge of these activities. *Prerequisite PE 101-102.* 2 hours—1 credit.

PE 206 Camp Counseling—Instruction and practical experience in camp activities and camp-craft with development of leadership in these activities and the camping program. By appointment. 3 hours—3 credits.

PE 207-208 Administration and Coaching—Organization and management of interscholastic and intramural programs and a study of fundamentals of the various sports, rules, methods of play, techniques, skills, and coaching methods. 2 hours—4 credits.

PE 210 COMMUNITY RECREATION—Nature and function of recreation; adaptation of activities for family recreation, parties, picnics, clubs, and community centers. 3 hours—3 credits.

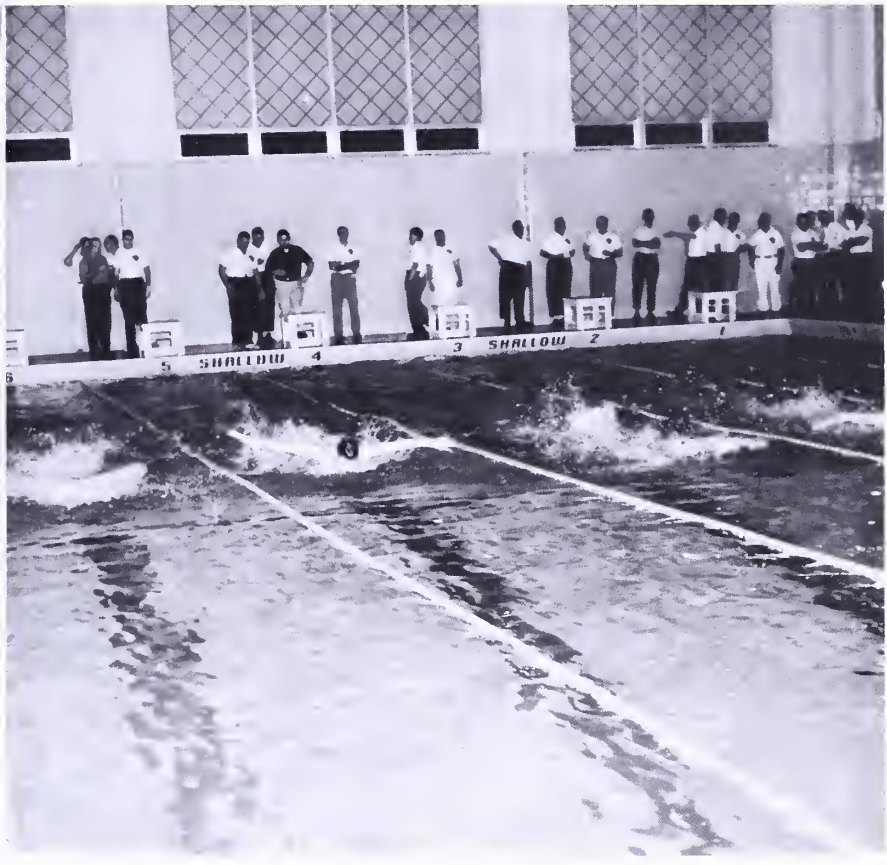
PE 215 ELEMENTARY SWIMMING—Development of knowledge and skills in (nine basic strokes) swimming, fundamentals of diving, competitive swimming, and water games and activities. 2 hours—1 credit.

PE 216 SENIOR LIFE SAVING—Knowledge and practice in life saving, water safety and management of a swimming pool. 2 hours—1 credit.

PE 220 INDIVIDUAL SPORTS—Methods, techniques, and basic skills in selected sports. 3 hours—3 credits.

PE 251 HEALTH AND HYGIENE—A study of personal health and hygiene; philosophy, educational principles and techniques applied to teaching situations in health and hygiene. 2 hours—2 credits.

PE 252 ELEMENTARY GAMES AND ACTIVITIES—A study of physical growth of children from ages 4–12, and consideration of games and activities appropriate to the physical development of the child in the elementary grades. 2 hours—2 credits.



Department of Physics

The Physics Department of Elizabethtown College has three (3) major instructional objectives. They are:

(1) to train students in the area of physics with graduate school as the ultimate objective.
(2) to train students in the area of teaching with work leading to secondary school certification in the field of physics.
(3) to train students in the area of pre-engineering.

Major Requirements: The following physics and mathematics courses are required of all Physics Majors—Phy 203-4, Phy 205, Ma 103, Ma 164, Ma 201-2, Ma 311, Phy 303-4, Phy 305-6, Phy 401-2, Phy 403, Ma 401, Phy 404.

Suggested Program—B.S. in Physics

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Mathematics 103	4	–
Mathematics 164	–	4
English 101-2*	3	3
Foreign Language**	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Mathematics 201-2	4	4
Physics 203-4	4	4
History 101-2	3	3
Bible 101-2	2	2
General Psychology 101-2	2	2
Foreign Language	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Physics 205	4	–
Mathematics 311	3	–
Physics 303-4	3	4
Physics 305-6	3	3
English 201-2 or 207-8	3	3
Sociology 151 or Business Administration 201	–	3
Philosophy 351 or 352	–	3

Senior Year	1st Sem.	2nd Sem.
Physics 401	3	–
Physics 402	–	4
Physics 403	3	–
Mathematics 401	3	–
Physics 404	–	4
Physics 499	–	2
History 303-4 or 305	3	3
Electives	4	–

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

** German is recommended.

Courses of Instruction

Phy 201-202 General Physics—An introduction to the basic concepts of physics including the areas of mechanics, heat, sound, electricity, magnetism, optics, atomic and nuclear. *Prerequisite Ma 154.* 3 hours *r,* 2 hours *l*—8 credits.

Phy 203, 204, 205 Introductory Physics—An introduction to the theory of mechanics, heat, wave motion, electricity, magnetism and light. *Co-requisite Ma 201-202.* 3 hours *r,* 2 *l* (per course)—4 credits each.

Phy 303-304 Electricity and Magnetism—The theory of the static and dynamic forces and fields associated with basic particles, electrical components, measurements, alternating current and radiation. A study of Maxwell's equations will be included. *Prerequisite Phy 205; Co-requisite Ma 311.* 3 hours *r* (1st Sem.)—3 credits. 3 hours *r,* 3 *l* (2nd Sem.)—4 credits.

Phy 305-306 Introduction to Theoretical Mechanics—A study of force, acceleration, work, energy, impulse and momentum. Linear and rotary motion will be analyzed including the use of various types of reference coordinates. The first part of Phy 305 will be devoted to an introduction to vector analysis. *Prerequisite Phy 204, Ma 202.* 3 hours *r*—6 credits.

Phy 401 Atomic Physics—A study of atomic and molecular structure, the quantum theory of radiation and spectra. *Prerequisite Phy 202 or 205, Ma 202.* 3 hours *r*—3 credits.

Phy 402 Nuclear Physics—A study of radioactivity, nuclear forces, nuclear reactions, particles and cosmic rays. *Prerequisite Phy 401.* 3 hours *r,* 3 *l*—4 credits.

Phy 403 Kinetic Theory and Thermodynamics—A study of the kinetic theory of matter and of the principles of thermodynamics including temperature, heat, work, internal energy, entropy and enthalpy. *Prerequisite Phy 204, Ma 202.* 3 hours *r*—3 credits.

Phy 404 Electronics—The basic components of electronic circuits will be studied including vacuum tubes, transistors and diodes. Fundamental circuits will be analyzed. *Prerequisite Phy 205, Ma 202.* 3 hours *r,* 3 *l.*

Phy 499 Seminar—Experimental or theoretical study under the direction of a staff member. A formal report of work will be required. *Prerequisite—Permission of Physics Department Head.* 2 credits.

Dr 115-116 Drawing and Descriptive Geometry—A study of reference planes, points, lines, curved surfaces, revolutions, true sizes, intersections, orthographic projection, isometric drawing, auxiliary views, sections, and developments. 1 hour *r,* 5 hours *l*—4 credits.

Department of Psychology

Psychology is that division of natural science which takes human behavior as its subject matter.

The major in psychology at Elizabethtown College is designed to meet the needs of two classes of students: (1) those who wish to acquire a thorough undergraduate training in the field in anticipation of graduate study and (2) those who want a basic understanding of human behavior as a supplement to some other major course of study.

The study and practice of psychology is one of the most rapidly growing fields in this country. In the United States, the number of properly qualified psychologists has more than tripled in the last decade.

Major Requirements: The psychology major is designed for students who plan to do graduate work in Psychology. A minimum of thirty-one (31) semester hours in Psychology is required for all majors. The required courses are Psy 101-2, Psy 303-4, Psy 321-22, Psy 332, Psy 343, Psy 401.

Suggested Program—B.A. in Psychology

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Foreign Language	3	3
Mathematics	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or 207-8	3	3
Biology 101-2	4	4
Psychology 303	3	–
Psychology 304	–	3
Foreign Language	3	3
European History	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
English Literature	2	2
Sociology 151	3	–
Psychology 321	3	–
Psychology 322	–	3
Psychology 332	–	3
Psychology 343	3	–
History and/or Political Science	3	3
Humanities 251 or Music 211	–	3
Electives	–	3

Senior Year	1st Sem.	2nd Sem.
Philosophy 351 or 352	–	3
Sociology 203	3	–
Psychology 401	3	–
Psychology Elective	3	3
Electives	4	8

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

Psy 101-102 General Psychology—An introduction to the general subject matter of the field aimed at giving the student an overview of psychology; consideration of such topics as motivation, learning, emotions, personality, sensation, and perception. 2 hours—4 credits.

Educational Psychology (See Ed 203).

Psy 303 Experimental Psychology—A laboratory course to acquaint students with the methods of experimentation in the field of psychology. Topics covered in the General Psychology course will be investigated. The student will prepare reports on the experiments and will be assigned readings to relate the material to current topics in psychology. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 304 Theories of Learning and Motivation—This is a course that deals with contemporary learning and motivation theorists. It will include a survey of the outstanding attempts to understand the nature of motivation and the learning process. Emphasis will be placed upon a comparison of current theories and their implications. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 312 Child Psychology—The general growth, maturational, and developmental aspects of the child from conception through adolescence. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 321 Personality Development—The role of personality theory in relation to the production of wholesome and unwholesome life adjustments; sources of emotional conflict together with factors that affect personality integration. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 322 Abnormal Psychology—The study of various forms of personality maladjustment, their origin, treatment, social significance, and of preventive measures; attention is given to the relation of problems in adjustment for both the normal and deviant. *Prerequisite Psy 321 or permission of the instructor.* 3 hours—3 credits.

Psy 332 Social Psychology—The treatment of such topics as social perception, attitude formation, social roles, language and communication, interpersonal perception, and influences of socialization in the development of personality. *Prerequisite Psy 101-102.* 3 hours—3 credits.

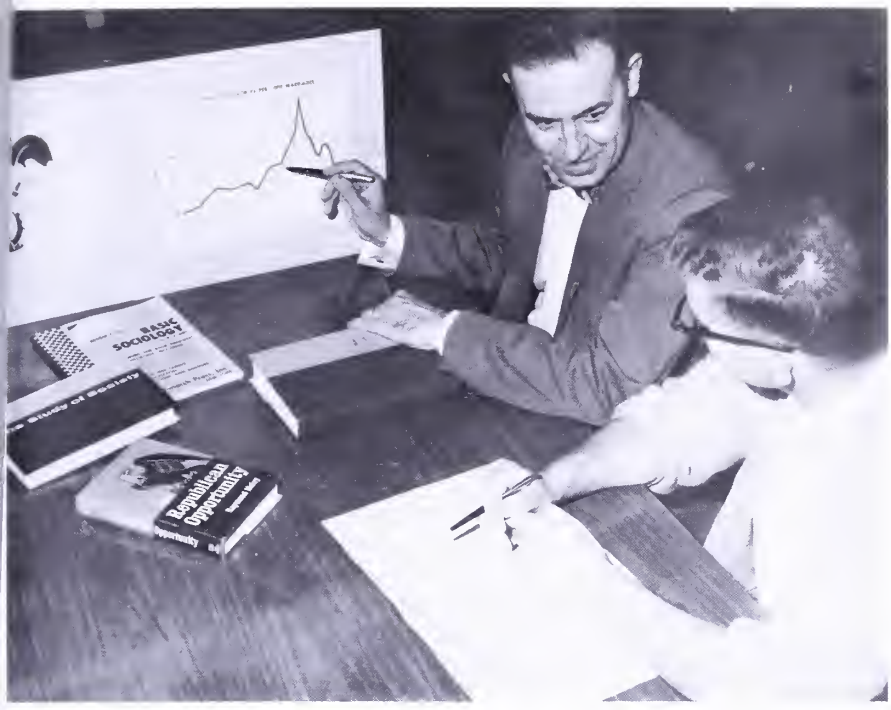
Psy 343 Psychological Statistics—An introduction to the quantitative methods used in psychology, including the design of psychological experiments, surveys, and statistical studies, as well as the treatment and interpretation of results. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 401 Contemporary Theory in Psychology—Consideration of the historical roots of present day psychology. The main emphasis will be on the development of scientific psychology, but some of the advances in applied psychology will also be included. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 411 Applied Psychology—A study of the applications of psychology in human relations; motivation of the individual, learning and memory, human efficiency, individual and sex differences, personality; applications in areas of communication and the professions. *Prerequisite Psy 101-102.* 3 hours—3 credits.

Psy 421—Introduction to Clinical Psychology—A course designed to acquaint students with the techniques and problems dealt with in Clinical Psychology. The course will include the following topics: the nature of the clinical interview, evaluation of psychological tests of intelligence and personality, and the use of projective tests. *Prerequisites Psy 322 and permission of the instructor.* 3 hours—3 credits.

Psy 499 Senior Seminar in Psychology—Designed to give the advanced student who plans to do graduate work an opportunity to study intensively some of the contemporary issues in psychology. *Prerequisite Psy 343 and permission of the instructor.* 3 credits.



Department of Sociology

Sociology is the study of man's relation to man; an attempt to account for the origin, growth, structure, and activities of human society. It is, furthermore, a study of human beings as members of a variety of societal groups. It employs the methods of modern science in examining and classifying the phenomena arising out of human associations, and in discovering the tendencies, uniformities, and laws operating in society.

Sociology is thus fundamental to a full understanding of the political and economic institutions which are studied specifically and in detail by other divisions of the social sciences. It also undertakes the study of certain institutions, groups, and phenomena, less specifically approached by other fields of knowledge: the family, the community, religious, racial, nationality, and class groups; the prevention and treatment of delinquency and crime; the nature and functioning of custom, and "public opinion"; the character, causes, and effects of social change.

Major Requirements: The following courses are required in the major areas of sociology and psychology—Psy 101-2, So 151, So 152, Psy 321, Psy 343, So 203, So 306, Psy 332 (12 hrs. of Sociology electives), (4 hrs. of Psychology electives). The minimum number of semester hours in Sociology and Psychology required for the degree, thirty-seven (37).

Suggested Program—B.A. in Sociology and Psychology

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
English 101-2*	3	3
History 101-2	3	3
General Psychology 101-2	2	2
Foreign Language	3	3
Mathematics	3	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
English 201-2 or 207-8	3	3
Biology 101-2	4	4
Sociology 151	3	–
Sociology 152	–	3
Foreign Language	3	3
European History	3	3
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
English 321	2	–
Literature	2	2
History 303-4	3	3
Psychology 321	3	–
Psychology 343	3	–
Sociology 203	3	–
Sociology 306	–	3
Humanities 251 or Music 211	–	3
Dept. Electives (Sociology)	–	4

Senior Year	1st Sem.	2nd Sem.
Philosophy 351	–	3
Philosophy 352	3	–
Psychology 332	–	3
Political Science 352	–	3
Electives (Sociology)	4	4
Electives (Psychology)	6	–
General Electives	3	–

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of an elective.

Courses of Instruction

So 151 Introduction to Sociology—A study of the group living of people, including a consideration of how social changes affect their culture and institutions. 3 hours—3 credits.

So 152 Social Problems—Consideration of the major problems of modern society, including crime, alcoholism, mental derangement, recreation, racial tensions, and others; an attempt to reveal the nature of the problems and to acquaint the student with what society is doing and can do about them. *Prerequisite So 151 (Not open to students who have completed more than fifteen semester hours in social studies).* 3 hours—3 credits.

Educational Sociology (See Ed 204).

So 203 Introduction to Anthropology—An introductory survey to the four main branches of anthropology—bio-anthropology, archeology, ethnology, and linguistics. 3 hours—3 credits.

So 304 Cultural Anthropology—A survey of the principles and findings of anthropology in comparative studies of several contemporary cultural areas of the world; an evaluation of problems of personality formation in human relations, cultural disintegration, and cultural stability. *Prerequisite So 203.* 3 hours—3 credits.

So 306 Intergroup Relations—An analysis of intergroup relations involving racial, ethnic, and religious minorities in the United States and selected regions of the world. *Prerequisite So 151.* 3 hours—3 credits.

Social Psychology (See Psy 331).

So 403 THE FAMILY—A comparative study of different family patterns; a functional approach to questions related to courtship, engagement, and the early years of married life. *Prerequisite So 151.* 3 hours—3 credits.

So 404 CRIMINOLOGY—A consideration primarily of the causes of criminality, modern trends in the detection of law violators, the development of penal institutions, court procedures and programs designed to reform the criminal. *Prerequisite So 151.* 3 hours—3 credits.

So 405 RURAL SOCIOLOGY—A consideration of the rural environment and population, rural social organization, and social processes in rural society. *Prerequisite So 151.* 3 hours—3 credits.

So 406 COMMUNITY ORGANIZATION—A study of the structure and function of the community together with an analysis of existing individual and group relationships; emphasis upon intra-group and inter-group processes in the evaluation of community needs and the development of community resources. *Prerequisite So 151* (*Open to only sociology majors*). 3 hours—3 credits.

Composite Courses

Certain programs of study preparing students for technical and professional careers, the preparation for which is not expressly covered by majors in the various departments, are presented in this section.

Engineering—B.A. and B.S. Degrees

Major Requirements: A total of 103 semester hours plus the two-year engineering program at Pennsylvania State University.

Curricula which Elizabethtown students will be qualified to enter at Pennsylvania State include aeronautical, civil, electrical, industrial, mechanical, and sanitary engineering. In order to be eligible for admission into the Pennsylvania State University, the student must be recommended by Elizabethtown College.

Upon successful completion of the five-year program, the student will receive a Bachelor of Arts degree from Elizabethtown College and a Bachelor of Science degree from The Pennsylvania State University.

Suggested Program

Freshman Year	1st Sem.	2nd Sem.
Chemistry 101-2	4	4
Drawing 115-116	2	2
English 101-2*	3	3
History 101-2	2	2
Mathematics 103	4	–
Mathematics 164	–	4
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Business Adm. 201	3	–
Bible 102	–	2
English 201-2 or 207-8	3	3
English 321	–	2
Foreign Language**	3	3
Mathematics 201-2	4	4
Physics 203-4	4	4
Physical Education	1	–

Junior Year	1st Sem.	2nd Sem.
Bible 101	2	–
History 304 or 305	–	3
Mathematics 311	3	–
Physics 205	4	–
Physics 305-6	3	3
General Psychology 101-2	2	2
Foreign Language**	3	3
Physical Education	–	1
Electives	–	6

The fourth and fifth years must be satisfactorily completed in the field of engineering at Pennsylvania State University.

* Freshmen who qualify through placement examination for English 103 (Advanced Freshman English—3 credits) and who successfully complete the course, will meet the basic six (6) semester hour English Composition requirement and will be allowed to take three (3) additional hours of Socio-Humanities as an elective. The elective in this case must be in the humanities.

** German is recommended.

Medical Technology—B.S. Degree

Major Requirements: A total of 100 semester hours plus a fourth year in an accredited school of training in Medical Technology.

Suggested Program

Freshman Year	1st Sem.	2nd Sem.
Biology 101-2	4	4
Chemistry 101-2	4	4
English 101-2	3	3
Mathematics 153	3	–
Mathematics 154	–	3
General Psychology 101-2	2	2
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Chemistry 201-2	4	4
Chemistry 203-4	1	1
Biology 205	4	–
Biology 256	–	4
English 201-2 or 207-8	3	3
History 101-2	2	2
Physical Education	1	1

Junior Year	1st Sem.	2nd Sem.
Chemistry 301	5	–
History and/or Political Science (including Hi 303-4 or Ps 352)	3	6
Philosophy 351	3	–
Philosophy 352	–	3
Physics 201-2	4	4
Chemistry 322	–	4

The fourth year is to be completed in an accredited school of training in Medical Technology. Upon the completion of such a course and the successful passing of the Registry Examination for medical technologists the Bachelor of Science degree will be conferred by Elizabethtown College.

Elizabethtown College is affiliated with the York Hospital, St. Joseph's Hospital of Lancaster, and the Lancaster General Hospital in its program leading to the Bachelor of Science degree with a major in Medical Technology.

Nursing—B.S. Degree

Major Requirements: A total of 66 semester hours plus the successful completion of a three-year nursing course at an approved nurses' training school.

Suggested Program

Freshman Year	1st Sem.	2nd Sem.
Bible 101-2	2	2
Biology 101-2	4	4
English 101-2	3	3
History 101-2	2	2
Mathematics 151 or 153	3	–
General Psychology 101-2	2	2
Sociology 151	–	3
Physical Education	1	1

Sophomore Year	1st Sem.	2nd Sem.
Chemistry 111-12	4	4
English 201-2 or 207-8	3	3
History and/or Political Science (including Hi 303-4 or Ps 352)	3	3
Philosophy 351 or 352	3	
Social Science	3	3
Electives	–	3

Upon the satisfactory completion of the two-year college course and the three-year nursing course at an approved nurses' training school, and the passing of a state board examination for the R.N. degree, the student will be eligible for the Bachelor of Science degree from Elizabethtown College.

Curriculum for Church Leadership Training

Upon completion of the following program, a student is eligible to receive from the Christian Education Commission of the General Brotherhood Board of the Church of the Brethren a College Level Leadership Training Certificate:

Required Courses:	Hours
Bible	6
General Psychology	3
Educational Psychology	3
Principles and Administration of Christian Education	3
Visual Education	2

Elective Courses:

Six semester hours chosen from among the following courses: Philosophy of Religion, Philosophy of the Christian Religion, Great Christian Doctrines, History of the Christian Church, History of the Church of the Brethren, Child Psychology, Social Psychology, Psychology of Religion, History of Religion.

One year's experience in church school work, while in college, under the supervision of capable leadership.

Student Life

The total college experience is more than the academic pursuits. Life on the campus includes the living experiences, participation in the various social and cultural events, and a balanced program of extracurricular activities, including sports, drama, speech and musical groups.

All students are members of the Student Association. Elected representatives serve the interests of the student body through an active student government. The chief governing body of the Association is the Student Senate.

Student Senate

The Student Senate is responsible for coordinating all the activities and interests of the student body. The Senate meets, at least, once a month during the academic year. All sessions are open to members of the student association. The Rudder, the college handbook, is prepared by the Senate outlining the major campus events for the coming year as well as the major student clubs and organizations which students prepare themselves for leadership in an extra-curricular way.

Student Center Board

One of the newest buildings on the campus is the A. C. Baugher Student Center. The Student Senate has delegated a major portion of its social and recreational programs to the Student Center Board. The Board helps to determine policy regarding the use of the building and helps to supervise the game room, student lounges, and other facilities within the Student Center building.

The Student Center has facilities for swimming, bowling, intramural sports,

conferences, movies, and many other activities. The center contains the bookstore, post office, Jay's Nest, Campus Radio Station and offices for student publications and student government. The Center becomes the hub of the many activities and interests of a student's life.

Committees on Men's and Women's Affairs

The Student Association, through the Student Senate, elects a Committee on Men's Affairs and a Committee on Women's Affairs. These two committees plan and promote the various activities of the dormitories. They assist the Senate in freshman orientation, set up dormitory councils and help to determine and to interpret the college rules and regulations within the dormitories.

Student Christian Organizations

The ECCA, Elizabethtown College Christian Association, serves the total religious interests of the campus. Throughout the year ECCA provides an ecumenical religious expression for all the students who seek a unified religious experience. The ECCA Cabinet tries to provide and to coordinate the many religious interests of students who live on campus.

Many denominational groups have regular meetings such as the Brethren Student Fellowship, Lutheran Student Association, the Canterbury Club, Methodist Students, Westminster Fellowship and others. These denominational groups, through the ECCA, coordinate their interests on campus and promote their denominational interests with the churches in the area.

Students who plan for full-time church vocations are invited to associate with a student organization known as Eta Gamma Kappa. They provide programs and projects of interests to those who plan to enter a religious ministry.

Campus Clubs

There are various clubs organized to give expression to the many interests of students.

Sock and Buskin—Dramatics
Society for Advancement of Management—Business
Pennsylvania State Education Association—Teachers
Eta Phi Sigma—Forensics
French Club—French students
German Club—German students
Political Science Club—Political Science students
Psychology Club—Psychology students
Phi Beta Chi—Science students
Varsity E Club—Sports Letter Winners
Young Republicans—All students
Young Democrats—All students
Abraxas—Men's Honor Society
Sigma Lambda Sigma—Women's Honor Society
Council for Exceptional Children—Special Education students

College Publications and Communications

The Etownian—The college newspaper is published semi-monthly giving news about campus life. The newspaper is designed to inform students about campus affairs and to reflect student views. A monthly Alumni edition is prepared from the campus papers and is sent to alumni and others interested in the college. College students receive their copies free.

Conestogan—Each spring a college yearbook is prepared to record the highlights on the campus during the year. All students receive a copy as part of their student fees.

WWEC—From 6 p.m. until midnight students are able to turn to 740 on their radio dial and receive the latest campus and world events. WWEC is a student operated station serving students on the campus.

The Rudder—Each year the Student Senate prepares a student handbook giving information concerning college life, college rules and regulations, orientation for new students and general information needed at all times.

The Elm—About once each year various bits of creative writing are gathered together and published. It is known as "The Elm."

Musical Organizations

The choral union, concert band, string orchestra, concert choir, chapel choir, women's chorus, men's glee club and other smaller groups are opportunities for interested students to serve the college in a musical way.

Further information may be obtained by referring to the pages in the catalog under "Instruction on Music Program."

Athletics

While sports interests are secondary to academic pursuits the college offers a wide variety of athletic interests for men and women.

Fall sports include:	
Soccer	Men
Cross Country	Men
Hockey	Women
Winter sports include:	
Basketball	Men
Wrestling	Men
Basketball	Women
Spring sports include:	
Baseball	Men
Tennis	Men
Tennis	Women

In addition an intramural program includes football, basketball, volleyball, tennis, wrestling, bowling and swimming.

Student Financial Aids

Students may receive financial assistance in various forms, as outlined below:

SCHOLARSHIPS—From $200 to full tuition is available for students who qualify. Requirements include ranking in the upper ten per cent of high school graduating class and a minimum combination score of 1,000 in College Entrance Examination Board tests.

LOANS—Loans are made available through the National Defense Education Act and are based on need. Application is made through the Admissions or Treasurer's Offices. A parent's confidential statement must accompany application.

GRANTS—Grants are given for special talent in areas such as music, science, and athletics.

SELF-HELP—Jobs in the dining hall, library, laboratories, and other areas are open to students. Application must be made for all jobs. Pay is deducted from second and fourth quarter bills.

Academic Scholarship

All scholarship candidates must take the Scholastic Aptitude Test of the College Entrance Examination Board. Applications for scholarships should be presented on a form from the College Admissions Office. Holders of scholarships must maintain a cumulative scholastic average indicated by the following minimum quality point ratios in order to be eligible for the renewal of said scholarships; at the end of the Freshman year 2.50; at the end of the Sophomore year 2.75; at the end of the Junior year 3.00.

Among funds available for scholarship purposes are those known as the Charles Troxell Royer Memorial, and the Student Volunteer Missionary Scholarship. The College is one of fifteen institutions which Pennsylvania Power and Light Scholarship winners may attend (information on which may be obtained from company offices in Allentown, Pennsylvania). A Nursing Education Scholarship is available through the Nursing Education Council of Bethany Hospital, Chicago, Illinois.

Scholarships are awarded by a Financial Aid Committee. For current announcements and additional information write the Director of Admissions, Elizabethtown College.

"Dean's Privilege" scholarships are available for those students not receiving other scholarship aid who have a quality point ratio of 3.00 at the end of the Sophomore year. Possible recipients must be recommended to the Dean of Instruction by their department head.

Students withdrawing from Elizabethtown College to attend other institutions and then returning to Elizabethtown College at a later date forfeit any scholarship commitment held in their previous attendance here.

No scholarship aid will be given unless applied for on or before a date set by the Office of Admissions.

Loans

Loans are available to worthy students. The National Defense Student Loan Fund has made it possible for many students to receive help through the efforts of the Federal Government. The Assured Education Plan allows students to borrow money on a monthly payment basis spreading the payments over many months. There are several smaller loan funds available.

Information concerning loans may be obtained by contacting the Treasurer of the College.

Grants-In-Aid

Students who have special abilities are given financial help in the form of grants for a particular skill; i.e., athletics, music, journalism. These grants are given only upon the recommendation of the Head of the Department involved. In addition to the special ability the student must meet the minimum requirements stated above.

Self-Help

The College provides a limited number of self-help assignments for worthy students. The dollar value of the assignment depends upon the nature of the work involved. Students who have been regularly enrolled are given first opportunity for these assignments. Applications may be procured by contacting the Student Personnel Office.

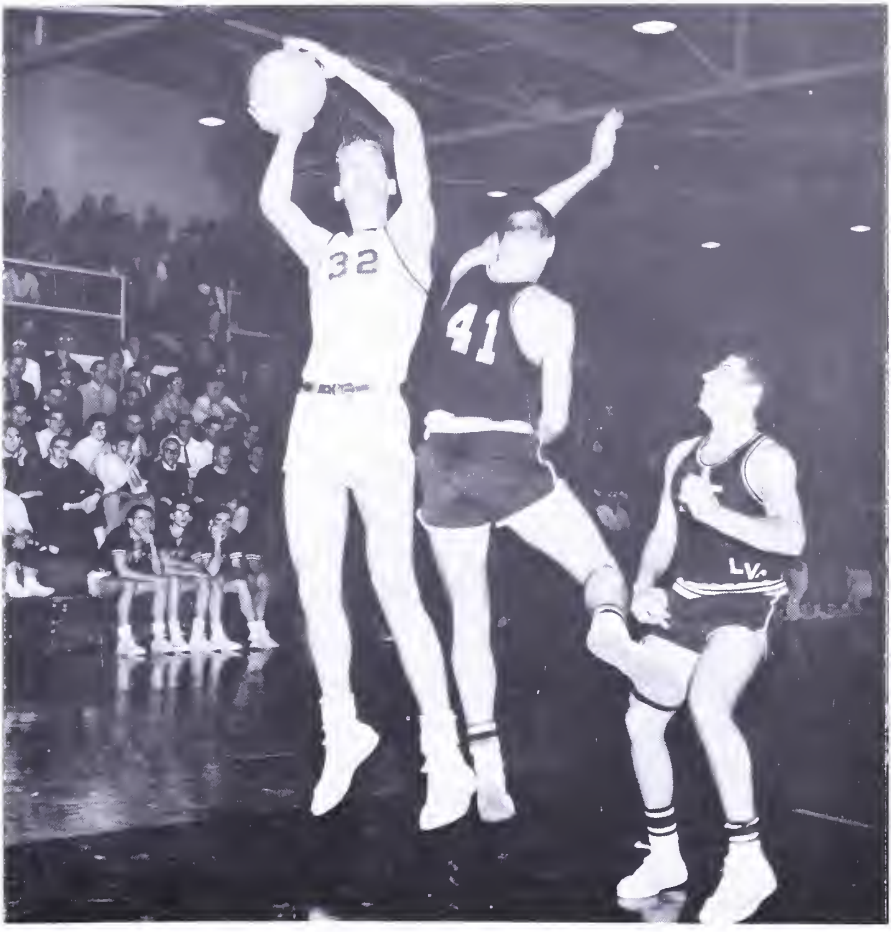
Student Health

The college maintains an infirmary on the campus staffed by three registered nurses. A local physician is on call and available for consultation as needed. Students may select their physician from a list of qualified doctors within the city, if they desire.

Students entering college are required to take a T.B. X-ray during the first semester or to present evidence of having an X-ray within the past six months. Likewise, Juniors are required to renew their X-ray examination.

Immunization for influenza is given each October or early November by the Health Services. Students are requested to avail themselves of this program to protect themselves from the flu and to protect everyone who lives and studies on the campus.

The college provides for students a minimum sickness and accident insurance program. The accident insurance program is mandatory unless exemption request is properly signed and returned to the college before September 1. However, for a minimum fee, a total of $750.00 coverage is provided and all students are urged to avail themselves of the sickness benefit as well as the mandatory accident program.



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Ethel L. Heaton—*Head of Residence*
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Irene Saylor, B.A., M.S.—*Assistant Librarian*
Mary B. Stambaugh, M.A.—*Assistant Librarian*

Faculty and Staff
1965-1966

BESSIE D. APGAR, *Professor of Biology*
A.B., Muskingum College; M.S., University of Pittsburgh; Ph.D., University of Pennsylvania.

CHARLES S. APGAR, *Professor of Biology; Head, Department of Biology.*
B.S., University of Pittsburgh; M.S., University of Pittsburgh; Ph.D., University of Pittsburgh.

JAMES M. BERKEBILE, *Professor of Chemistry; Director, Teachers for West Africa Program*
A.B., Manchester College; A.M. Ph.D., The Ohio State University.

EDGAR T. BITTING, *Professor of Business; Head, Department of Business*
B.S., Elizabethtown College; M.B.A., University of Pennsylvania; C.P.A.

RICHARD W. BOMBERGER, *Professor of English; Head, Department of English*
A.B., Franklin and Marshall College; A.M., The University of Virginia.

IRVIN L. BOSSLER, *Associate Professor of Mathematics; Head, Department of Mathematics*
B.S., Ursinus College; M.S., Purdue University.

KENNETH L. BOWERS, *Director of Publications with rank of Assistant Professor*
A.B., Elizabethtown College; M.A., The Pennsylvania State University.

ROSALIE ERB BOWERS, *Assistant Librarian with the rank of Assistant Professor*
A.B., Elizabethtown College; M.S., Drexel Institute of Technology.

ELIZABETH BRUCKHART, *Director of Residence and Assistant in Student Personnel with the rank of Assistant Professor*
B.A., Manchester College; M.S., Indiana University.

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A.B., Oklahoma A. & M. College; B.D., Bethany Biblical Seminary; A.M., Butler University; S.T.D., Temple University.

R. LEE BYERS, *Assistant Professor of Engineering and Physics, Director of Engineering Programs*
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CARL J. CAMPBELL, *Associate Professor of English*
A.B., Franklin and Marshall College; M.A., The University of Pennsylvania.

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EUGENE P. CLEMENS, *Instructor in Bible and Philosophy*
B.A., Goshen College; M.A., University of Pennsylvania.

EDWARD L. CRILL, *Dean of Students with the rank of Associate Professor*
A.B., Manchester College; M.Ed., Johns Hopkins University.

HUBERT M. CUSTER, *Associate Professor of Physics; Head, Department of Physics*
B.S. in E.E., Carnegie Institute of Technology; M.S., Franklin and Marshall College.

ULDIS DAIGA, *Instructor in Languages*
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B.S., California State College; M.A., West Virginia University.

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B.S., The Pennsylvania State University; M.Ed., The Pennsylvania State University.

William C. Edel, *Assistant Professor of Business*
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B.S., McPherson College; M.A., Temple University.

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B.S., Elizabethtown College; M.B.A., Indiana University.

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A.B., Temple University; A.M., Temple University; Ph.D., Temple University.

Nevin W. Fisher, *Professor of Music; Head, Department of Music*
Graduate, Blue Ridge College, Department of Music—Piano, Voice; Peabody Conservatory of Music, Teachers' Certificate; B.M., Eastman School of Music, University of Rochester; M. Music, Northwestern University.

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A.B., Lebanon Valley College; M.Ed., The Pennsylvania State University.

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A.B., Elizabethtown College; A.M., Columbia University; Teacher's College Professional Diploma, Columbia University.

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B.S., University of Pennsylvania; M.Ed., University of Delaware.

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B.A., Earlham College; M.S., Southern Illinois University.

D. PAUL RICE, *Assistant Professor of Education*
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JOBIE E. RILEY, *Assistant Professor of English and Director of Forensics*
B.A., Manchester College; B.D., Bethany Seminary; M.A., Northwestern University.

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O. F. STAMBAUGH, *Professor of Chemistry; Head, Department of Chemistry; Director of Summer Sessions*
B.S., Lebanon Valley College; M.S., The Pennsylvania State University; Ph.D., The Pennsylvania State University.

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A.B., La Verne College; B.D., Bethany Biblical Seminary; Th.D., Pacific School of Religion.

ESTHER K. SWICK, *Assistant Professor of English*
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B.S., Elizabethtown College; M.Ed., Temple University.

NORMAN N. WEISENFLUH, *Professor of Education and Psychology*
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JOEL D. WEST, *Assistant Professor of Psychology*
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DAVID P. WILLOUGHBY, *Assistant Professor of Music; Director of Choral and Instrumental Music*
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OWEN LEE WRIGHT, *Assistant Professor of Physical Education; Head, Department of Physical Education*
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JOHN M. YANCEY, *Assistant Professor of Psychology and Director of Testing*
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CARL W. ZEIGLER, *Associate Professor of Bible*
A.B., Elizabethtown College; B.D., United Theological Seminary; D.D., Elizabethtown College.

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Ralph W. Schlosser, *President Emeritus*
Pd.B., Elizabethtown College; A.B., Ursinus College; A.M. Columbia University; Litt.D., Ursinus College.

Clarence G. Enterline, *Emeritus Alumni Secretary and Director of Placement*
B.S., Albright College; M.S., University of Pennsylvania.

Ira R. Herr, *Professor Emeritus of Physical Education*
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J. Z. Herr, *Emeritus Treasurer and Business Manager*
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Martha Martin, *Professor Emeritus of Bible*
A.B., Elizabethtown College; Bethany Biblical Seminary; Biblical Seminary of New York; University of Pennsylvania.

E. G. Meyer, *Professor Emeritus of Music*
Pd.B., Elizabethtown College; A.B., Elizabethtown College; A.M., Columbia University.

Gertrude Royer Meyer, *Professor Emeritus of Piano*
Graduate in Music, Western Maryland College; Columbia University; Peabody Conservatory of Music.

Mary B. Reber, *Professor Emeritus of Art*
B.E., Elizabethtown College; Albright College; Columbia University.

College Calendar
1965 - 1966

September	8	(Wednesday) ..... New Faculty Report
September	9	(Thursday) ..... All Faculty Report
September	9, 10	(Thursday through Friday) ..... Faculty Sessions
September	13	(Monday) ..... Student Leaders Arrive
September	14	(Tuesday) ..... Student Leaders Orientation
September	15	(Wednesday) ..... Freshmen Arrive
September	16	(Thursday) ..... Academic Orientation
		Introduce advisors
		Briefing for afternoon registration
September	17	(Friday) .... Reading Program—Discussion and Evaluation
September	18	(Saturday) .. Reading Program—Discussion and Evaluation
September	19	(Sunday) ..... Upperclassmen and Transfers Arrive
September	20	(Monday) ..... Upperclassmen and Transfers Register
September	21	(Tuesday) ..... Classes Begin
October	16	(Saturday) ..... Homecoming Day
November	13	(Saturday) ..... Founder's Day
November	23	(Tuesday 5:00 p.m.) ..... Thanksgiving Recess Begins
November	29	(Monday 7:40 a.m.) ..... Classes Resume
December	17	(Friday 5:00 p.m.) ..... Christmas Recess Begins
January	3	(Monday 7:40 a.m.) ..... Classes Resume
January	26	..... First Semester Ends—Recess
January	30	(Sunday) ..... Mid-year Commencement
January	31	..... Second Semester Registration
February	1	(Tuesday) ..... Classes Resume
April	7	(Thursday 5:00 p.m.) ..... Spring Vacation Begins
April	10	(Sunday) ..... Easter
April	18	(Monday 7:40 a.m.) ..... Classes Begin
May	7	(Saturday) ..... May Day and Alumni Day
May	26	(Thursday) ..... Second Semester Ends
May	29	(Sunday) ..... Baccalaureate and Commencement

Summer Session - 1966

June	13	(Monday) ..... Summer Session Begins
July	4	(Monday) ..... Independence Day (No Class)
July	15	(Friday) ..... Summer Session I Ends
July	18	(Monday) ..... Summer Session II Begins
August	19	(Friday) ..... Summer Session II Ends
August	19	(Friday) ..... Summer Commencement

College Costs (1965–66)

The comprehensive fee for resident students for the 1965–66 academic ear is $1,995, including tuition, room, board, and fees. The cost for com- uting students (tuition and fees) is $1,270.

Included in the fee structure are the costs of such items as library fees, ome laboratory fees, attendance at athletic events and cultural programs, tudent publications, and use of the campus infirmary. They do not include nsurance, laundry service, textbooks, and other supplies.

Billing for the comprehensive fee will be on a quarterly basis, beginning in September. The final quarterly payment will be due on or about April 1.

College Policy on Alcohol

It is contrary to the policy of Elizabethtown College for students to drink alcoholic beverages either on or off the campus. It is illegal in the Commonwealth of Pennsylvania for anyone under the age of twenty-one years "to attempt to purchase, to consume, to possess or to transport alcoholic beverages." Students violating college and state regulations are subject to immediate dismissal from college and liable to prosecution in the courts of Pennsylvania (said prosecution refers to anyone under twenty-one, or anyone older furnishing alcoholic beverages to anyone under twenty-one years of age). There is active enforcement of the college policy and state law. Students who feel alcohol must be a part of college life should not attend Elizabethtown College.

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ELIZABETHTOWN, PENNSYLVANIA

DIRECTOR OF ADMISSIONS
ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

I am interested in Elizabethtown College.

- ☐ **Send me an Application for Admission form.**
- ☐ **Arrange an interview for me on the campus.**
- ☐ **Send me information about honor scholarships.**

Name .....

Street ..... **City & State** .....

High School ..... **Date of Graduation** .....

DIRECTOR OF ADMISSIONS
ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

I am interested in Elizabethtown College.

- ☐ **Send me an Application for Admission form.**
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- ☐ **Send me information about honor scholarships.**

Name .....

Street ..... **City & State** .....

High School ..... **Date of Graduation** .....

DIRECTOR OF ADMISSIONS
ELIZABETHTOWN COLLEGE
ELIZABETHTOWN, PENNSYLVANIA

Dear Sir:

I am interested in Elizabethtown College.

- ☐ **Send me an Application for Admission form.**
- ☐ **Arrange an interview for me on the campus.**
- ☐ **Send me information about honor scholarships.**

Name .....

Street ..... **City & State** .....

High School ..... **Date of Graduation** .....

Correspondence

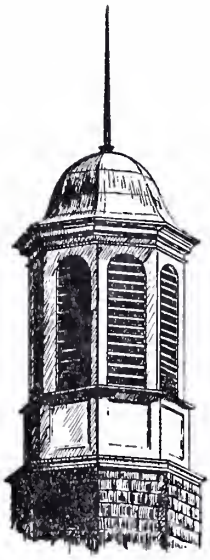
All correspondence should be addressed to Elizabethtown College, Elizabethtown, Pennsylvania. Correspondence dealing with a particular matter should be specifically directed as indicated below.

Academic Matters	Dean of the College Alpha Hall
Admission	Director of Admissions Alpha Hall
Alumni Activities	Alumni Secretary Alpha Hall
Athletic Activities	Director of Athletics Baugher Student Center
Business Matters	Treasurer's Office Alpha Hall
Financial Assistance	Director of Admissions Alpha Hall
General Information	Office of Public Relations Alpha Annex
Gifts or Bequests Information	Office of Public Relations Alpha Annex
Living Accommodations	Dean of Men Alpha Hall or Dean of Women Baugher Student Center
Summer Sessions	Director of Summer Sessions Alpha Hall

ELIZABETHTOWN COLLEGE BULLETIN

1966

1968



The Liberal Arts

ELIZABETHTOWN COLLEGE subscribes to the Liberal Arts philosophy of learning, which seeks to deepen and broaden man's knowledge of his heritage and the world in which he lives.

A Liberal Arts education is concerned with the molding of the whole man: his appreciation of the beauty of the fine arts through literature and music, his understanding of the physical world through science, his insight to the dynamics of society through the social sciences, his role in the moral universe through philosophy and religion.

The Liberal Arts sharpen the student's ability to think clearly, to reason soundly, to communicate effectively, to measure human values incisively.

Reaching back to encompass the gathered knowledge of the ages, the Liberal Arts are alive and vibrant in the modern world. Their mastery gives new meaning to life.

Elizabethtown College Bulletin

Published Quarterly

Sixty-sixth Catalog Number

Announcement of Courses 1966-68

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ELIZABETHTOWN COLLEGE

ELIZABETHTOWN, PENNSYLVANIA

Published quarterly by Elizabethtown College. Second-class postage paid at Elizabethtown, Pennsylvania 17022.

HISTORY and PURPOSE

The College: Its History and Purpose

HORTLY before the dawn of the current century, a group of earnest nen, all members of the Church of the Brethren, strode purposefully across broad acres of farm land that were to become the campus of Elizabethtown ege.

On a slight hill they stopped, looked over the surrounding countryside, then quietly agreed that this was the site for which they were looking. hill on which they stood became the location for Alpha Hall, the first ding of the new College.

A charter for the College was received from the Commonwealth of Penn- ania on September 23, 1899. Classes officially began in November of the owing year.

Supported at first by individual contributions, the College in time be- ne the responsibility of the Eastern and Southern Pennsylvania Districts of Church of the Brethren. The Church officially assumed the responsibility operating the College in January, 1919.

With the advancing years, the College grew in the size of its enrollment, extent of its physical facilities, and the quality of its curriculum.

Formal accreditation was granted in 1921 by the Pennsylvania De- tment of Public Instruction and in 1948 by the Middle States Association Colleges and Secondary Schools.

Elizabethtown College has taken its place in the circle of American higher ication. It holds membership in the Association of American Colleges and American Council on Education. It has been approved by the American sociation of University Women.

"Harmonious Development"

In the words of the founding fathers, as recorded in the original charter, purpose of the College is "to give such harmonious development to the ysical, mental, and moral powers of both sexes as will best fit them for duties of life and promote their spiritual interests."

Elizabethtown College is, in every aspect of its program, a Christian in- ution. Its facilities are open to all without discrimination.

Deeply rooted in the philosophy of the College are the beliefs that a an body and a clear mind are basic requirements for a Christian life, that n and women can serve God through any vocation which serves the needs mankind, that life in college requires hard work and firmness of pur- se, that genuine culture is the result of knowledge coupled with Christian aracter.

Broadly stated, the purpose of Elizabethtown College is to train students rough a balanced program of Christian living, sound academic studies, ysical fitness, and social insight. All aspects of life on the campus are cluded in this program.

The Campus

IN many respects, the personality of a college is reflected by its camp which provides the physical setting for its various activities: acaden spiritual, social.

Students at Elizabethtown College live and work on a 95-acre camp which includes a broad dell, a lake, and numerous trees. The general sett is one of quiet, natural beauty.

The main buildings, strategically located in relation to each other, a designed in modern colonial architecture, which blends well with the s rounding landscape.

A. C. BAUGHER STUDENT CENTER was completed in the fall of 19(Built around the alumni auditorium-gymnasium, this modern structure hou the college post office, the campus bookstore, a snack bar, bowling alle swimming pool, lounges and conference rooms of various sizes. It is t center for student extra-curricular activities.

ALPHA HALL, the oldest building, is the administrative center of t campus. Facilities located here include the business office, student admissio student records and services, public relations, and various administrati offices.

THE DAVID E. AND SADIE M. BRINSER RESIDENCE, a dormitory for me Dedicated in 1965, this three-story structure provides modern housing a commodations for 140 men.

ESBENSHADE HALL, a modern classroom building, is the teaching cent of the campus. Housed within it are special laboratories for the study physics, psychology, and modern languages in addition to general classroo facilities, faculty offices, and a large lecture hall.

FAIRVIEW RESIDENCE is one of the smaller dormitories with facilities f housing 56 students.

GIBBLE SCIENCE HALL, recently enlarged by the addition of a ne wing, provides well-equipped laboratories for students in chemistry, biology, ar physics. In addition, there are several well-designed classrooms and t large Brinser Lecture Hall.

THE COLLEGE INFIRMARY was renovated to provide separate camp medical facilities for both men and women. Registered nurses make up t staff of the infirmary and are on call at all times during the academic ye

ELIZABETH MYER HALL, a women's dormitory, one of the more rece additions to the campus, has living accomodations for 132 students. T College Dining Rooms, which can seat as many as 600 comfortably, are locat in one wing of the building.

H. K. OBER HALL, a men's dormitory completed in 1960, is one of t largest buildings on the campus. It has pleasant living facilities for 230 student including lounges, laundry rooms, game rooms.

RESIDENCE FOR WOMEN, located along College Avenue, is the large women's dormitory on the campus. Completely modern in design and functio it houses 206 women.

RIDER HALL, located near the center of the campus, is used as a clas room building.

THE MARY ROYER RESIDENCE for women was completed and occupied i the fall of 1962. This modern dormitory includes lounges and laundry facilitie and provides complete housing for 130 women students.

ZUG MEMORIAL LIBRARY is centrally located for easy access by students. It contains approximately 45,000 volumes of reference material. In addition, there are approximately 600 selected periodicals, a microfilm Reader, and record-playing facilities available.

Other buildings on the campus include West Hall which houses the Department of Music; North, South and Center Halls, which house classrooms and faculty offices; and the Business Education Building. There are also several small residences on the periphery of the campus used as honors houses for students.

Location

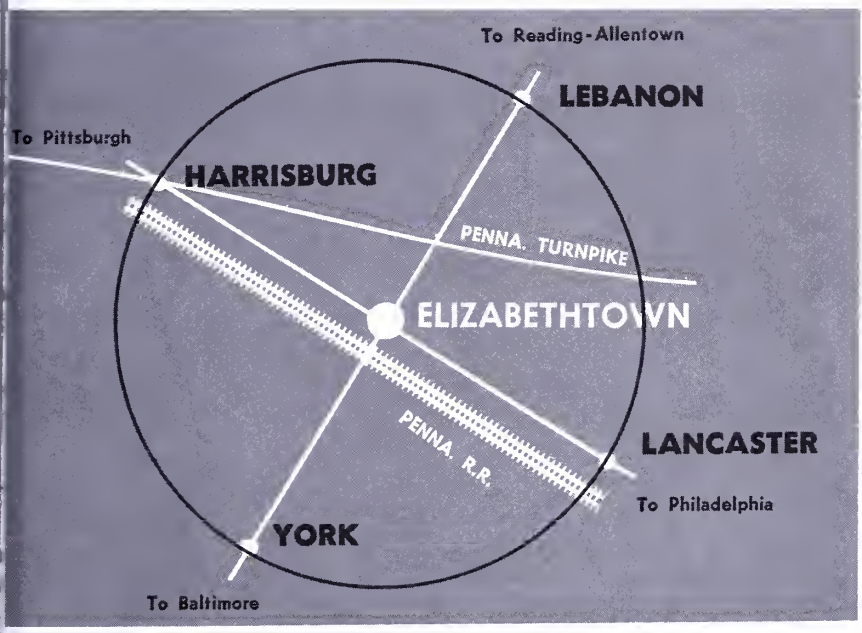
THE 95-acre Elizabethtown College campus is located in Elizabethtown, a residential community in Lancaster County with a population of slightly under 7,000.

The surrounding area contains some of the most desirable agricultural country in the Nation as well as prosperous industrial centers producing a wide variety of commodities, including steel, aluminum, building materials, appliances, and timepieces.

Elizabethtown is situated in the midst of several of the larger communities in southeastern Pennsylvania, including Lancaster, Lebanon, Harrisburg, York, and Reading. It is approximately a hundred miles from such metropolitan centers as Philadelphia, Baltimore, and Washington, D. C.

Elizabethtown has complete facilities for shopping, banking, and other personal services.

Access to Elizabethtown can be had directly by the Pennsylvania Railroad and U. S. Route 230. An interchange of the Pennsylvania Turnpike is available at Highspire, approximately ten miles from Elizabethtown on Route 230. The Harrisburg-York Airport and the Lancaster Airport are within a 35-minute drive of the campus.



ACADEMIC PROGRAM

The Academic Program

The information in the College Bulletin is the student's guide for the planning of his courses for the fulfillment of his degree requirements. ulty advisors and administrative counselors work with him for each semes- registration. However, the student is expected to be familiar with the rmation in the bulletin and is personally responsible for arranging a program eting all requirements for his degree.

Admission to the College

From the young men and women who apply for admission to Elizabeth- n College, those whose records of character, scholarship, and health gest that they are fitted to do acceptable college work are selected.

Certain guiding principles are used as applications are evaluated:

1. That the student be a graduate of a senior high school accredited by the Regional Accrediting Agency or by the Department of Education of the state in which he lives.
2. That he be recommended by his high school principal and/or guidance counselor.
3. That he complete a satisfactory College Preparatory Course. If a student has not completed such a course but is deemed, through test scores or other means of evaluating his potential, qualified for entrance, he may be admitted.
4. That he take the Scholastic Aptitude Test and the following achievement tests:
   a. A Writing Sample
   b. A Mathematics, Level I, Test
   c. A foreign language test—French, German, Spanish or Russian—if the curriculum in college demands a language and if the student wishes to continue in the language that he has had in high school. This test will help to determine whether the student should be placed in beginning, intermediate, or the advanced class.

These tests are given by the College Entrance Examination Board. Con- t your high school guidance counselor to arrange for the examinations.

The student wishing to enter Elizabethtown College should write to the rector of Admissions for an application blank and advisably for an in- view on campus unless he has been interviewed by a College representative -campus.

After admission and before entrance into college, a student must supply a ysician's report of good health in a form sent to him by the Director of dmissions.

Early Admissions Plan

In a sincere effort to provide an opportunity for academic acceleration superior students, Elizabethtown College has initiated a program under which refully selected pupils may begin their higher education immediately after mpleting the junior year in high school.

Students enrolled under this program become full-fledged freshmen at the llege and, upon successful completion of the freshmen year, are granted a gh school diploma in addition to the college credits earned. The program has e full cooperation and support of the Pennsylvania Department of Public In- ruction.

All degree programs at the College are available to these selected stu- nts, who are expected to exhibit the mental and emotional maturity neces- ry to adjust to the general program of the College. Following enrollment, udents receive close personal counseling by selected faculty members.

All applicants for the accelerated admission program are carefully scree d on a highly individualized basis. Particular attention is given to the follow g personality factors: mental ability, scholastic achievement, social and phys l maturity, and personal motivation.

To be accepted, students must have completed the eleventh year in n accredited high school program and rank in the upper percentiles of tl r high school class.

Scholastic Aptitude Test scores and other test results are given weig consideration.

The opinions and predictions of the student's high school principal a guidance counselor are of prime importance, as are those of College's partment head in the particular discipline elected by the applicant.

The complete approval of the student's parents, high school principal, a guidance counselor is mandatory before the student can be accepted. Oth participating in the selection process are the Dean of Instruction of Elizabe town College, the College's Director of Admissions, and the Director of Test at the College.

In addition to the indicated statistical data, the selection process inclu a conference with the student by College officers in the presence of t parents, principal, and guidance counselor.

Any student interested in applying for this accelerated program shou first discuss the matter thoroughly with the high school guidance counselor a then write to the Director of Admissions at Elizabethtown College for application form.

Admission to Advanced Standing

Students may be admitted to advance standing up to the beginning the senior year on the following basis:

By EXAMINATION. Examinations are given only to those who ha teaching experience or practical work in the subjects in which the examinati is sought, or to those who have pursued such courses under approved i struction. These tests will be graded passing or failing. Neither letter grad nor quality points will be given. The cost of these examinations is $15.(per semester hour credit.

ADVANCED PLACEMENT PROGRAM (CEEB). Elizabethtown Co lege participates in the Advanced Placement Program of the College Entran Examination Board. With the approval of the department concerned ar the Dean of Instruction, advanced placement and credit are granted to st dents who perform satisfactorily in college-level courses in secondary scho and on the Advanced Placement Examinations. Although advanced placeme credit may be allowed, such credit does not count toward the 128 semeste hour requirement for graduation.

EXAMINATION FOR CERTIFICATION. One exception to the pr cedure as stated above involves the Business Education students who ar required to have typing and shorthand on their transcripts. These students ar privileged to take a proficiency examination upon payment of a fee of $5.0(The student who passes the examination is given advanced placement and i addition, the appropriate semester-hour credit with the understanding tha he must fulfill the graduation requirement of 128 semester hours over an above the advanced placement credits.

FROM OTHER COLLEGES. The transfer student must present secondary school record together with an official transcript indicating wor completed at and honorable dismissal from any college or all colleges whic he has attended.

For any student entering Elizabethtown College by transfer, a minimum of 9 semester hours will be required for graduation if he has attended another college for one year, 64 semester hours if for two years, and 32 semester hours if or three years.

All students who transfer to Elizabethtown College are required to pass a ompetency examination in English. Students who fail to meet the minimum s ndards are required to enroll in En 101 English Composition and will not b granted credit for a similar course in transfer.

Veterans Entering Elizabethtown College

Elizabethtown College is approved for the training of veterans under Public Laws 16 and 894 (Rehabilitation Acts), 634 (War Orphans), and 89-358 (Cold War GI Bill).

All veterans who are admitted under the provisions of one of the public laws must furnish the treasurer of the college with a certificate of eligibility and entitlement on that day of registration or before. This certificate is procured from the Regional Office of the Veterans Administration. Veterans are urged to apply for educational benefits two months before they expect to enter college.

The veteran is personally responsible to the college for the payment of fees on regularly scheduled dates for payment.

Student Financial Aids

Students may receive financial assistance in various forms, as outlined below:

SCHOLARSHIPS—From $200 to full tuition is available for students who qualify. Requirements include ranking in the upper ten per cent of high school graduating class and a minimum combination score of 1,000 in College Entrance Examination Board tests.

LOANS—Loans are made available through the National Defense Education Acts and are based on need. Application is made through the Admissions or Treasurer's Offices. A parent's confidential statement must accompany application.

GRANTS—Grants are given for special talent in areas such as music, science, and athletics.

SELF-HELP—Jobs in the dining hall, library, laboratories, and other areas are open to students. Application must be made for all jobs.

Academic Scholarships

All scholarship candidates must take the Scholastic Aptitude Test of the College Entrance Examination Board. Applications for scholarships should be presented on a form from the College Admissions Office. Holders of scholarships must maintain a cumulative scholastic average indicated by the following minimum quality point ratios in order to be eligible for the renewal of said scholarships; at the end of the Freshman year 2.50; at the end of the Sophomore year 2.75; at the end of the Junior year 3.00.

Among funds available for scholarship purposes are those known as the Charles Troxell Royer Memorial, and the Student Volunteer Missionary Scholarship. The College is one of fifteen institutions which Pennsylvania Power and Light Scholarship winners may attend (information on which may be obtained from company offices in Allentown, Pennsylvania). A Nursing Education Scholarship is available through the Nursing Education Council of Bethany Hospital, Chicago, Illinois.

Scholarships are awarded by a Financial Aid Committee. For curr announcements and additional information write the Director of Admissic Elizabethtown College.

"Dean's Privilege" scholarships are available for those students not ceiving other scholarship aid who have a quality point ratio of 3.00 at end of the Sophomore year. Possible recipients must be recommended the Dean of Instruction by their department head.

Students withdrawing from Elizabethtown College to attend other stitutions and then returning to Elizabethtown College at a later date fort any scholarship commitment held in their previous attendance here.

Scholarships granted to Elizabethtown College students are valid o while they attend college on the Elizabethtown campus. They are not va while attending other cooperative programs at other institutions.

No scholarship aid will be given unless applied for on or before a date by the Office of Admissions.

Loans

Loans are available to worthy students demonstrating financial need. T College stands ready to assist students with loans which may be obtain through the Federal Government (National Defense Student Loan) and throu the Pennsylvania Higher Education Assistance Agency. The Assured Educati Plan allows students to borrow money on a monthly payment basis, spreadi the payments over many months. There are several smaller loan funds availabl

Information concerning loans may be obtained by contacting the Treasur of the College.

Grants-in-Aid

The College awards a limited number of special ability grants to studen who possess a certain skill: i.e. athletics and music. In order to maintain the grants the student must meet the academic and good citizenship requiremen of the college. Students who go on probation (academic or social probation will lose their grants.

The College has available to needy students Educational Opportuni Grants provided by Higher Education Bill of 1965. In order to qualify th student must show evidence of academic or creative promise, have basic financi need, and be eligible for a NDEA loan.

Work Study

The College provides a limited number of self-help assignments fo worthy students. The dollar value of the assignment depends upon the natur of the work involved. Students who have been regularly enrolled are give first opportunity for these assignments.

The College sponsors a work-study program developed by the Federa Government under the Economic Opportunity Act of 1964 for students wh can demonstrate financial needs.

Work-study applications may be obtained by contacting the Dean o Students.

Prizes

Each year a number of individuals, organizations, and corporations confe various awards and prizes for specific accomplishments in divergent areas Among the established prizes are The Royer Bible Prize, the Weaver Biology Prize, the Butterbaugh Chemistry Prize, the Kettering Accounting Prize, the Raffensperger Journalism Prize, the Dr. John Robert Gregg Memorial Award the Pennsylvania Institute of Certified Public Accounting Award, the Wal Street Journal Award, and others.

nformation concerning these and other prizes and awards may be ned from the Dean of the College or heads of departments involved.

Handicapped Students at Elizabethtown College

Elizabethtown College admits a limited number of handicapped students. students are asked to give evidence of satisfactory arrangements for and movement to and from classes and about the campus before acceptance will be granted. The College cannot assume any responsi- for classroom or dormitory adjustments, or provide special tutoring or assistance. A physician's personal statement concerning physical capa- es and limitations of the student must be presented.

The Curricula

Elizabethtown College offers courses leading to two degrees: Bachelor of and Bachelor of Science.

A student may select as a major in the Bachelor of Arts program any of ollowing: Bible and Philosophy, English, Foreign Language, History and ical Science, Mathematics, Social Studies, Psychology or Sociology.

In the Bachelor of Science program he may choose Accounting, Biology, ness Administration, Chemistry, Mathematics, Medical Technology, Nurs- Premedical sciences, or Physics.

The student preparing for teaching may major in Business Education, entary Education, Secondary Education, or Music Education.

Requirements for the two degrees with the various majors are set forth ages 26 through 91 in this bulletin.

In all curricula in which a two-year language requirement is indicated, the pletion of the second college year will meet the requirement. A student ng completed two years of a language in high school will receive college it if he enrolls for the first year of the same language only if he is gned to the class as a result of his placement examination score.

The Student's Program

The entering freshman is admitted into one of the degree programs cated above. The work of his first two years is prescribed to a large extent nsure him a foundation in general education and enable him to select his l of concentration wisely.

In most curricula a wide range of electives is offered in the junior and or years. The student will take the prescribed courses outlined for each secutive year. The College is not responsible to arrange the scheduling of rses out of sequence. To change from one curriculum to another, the lent must secure permission from the Academic Dean.

Since the completion of 128 semester hours of work is required for a ree, a student's program must include an average of 16 semester hours for h of the eight semesters of a four year program. Normally he may carry to 18 semester hours of work in any given semester.

With his faculty adviser he arranges each semester's program to include courses outlined in the catalog for the curriculum which he is pursuing. electives are chosen in consultation with his adviser.

A student who has achieved a cumulative quality point-credit ratio of 0 or above may carry up to 20 semester hours credit in a semester and y complete his work in a minimum of three years and twenty weeks. e maximum number of semester hours any student may carry in a given nester is 20. For each semester hour above 18 for which a student is olled in a given semester, an additional fee is charged.

Any student taking 10 hours or more of credit per semester at Elizabeth- n College is considered a full-time student and will pay full tuition and

fees. Any student taking 9 hours or less per semester will pay the regular semester hour rate, plus essential fees. He will receive a library card entitling him to full use of the library facilities.

Absences and Withdrawals

It is the responsibility of each student to attend classes regularly and punctually. Absences caused by ill health, death in the immediate family, participation in intercollegiate events, field trips, and other college assigned and approved activities are cleared through the Office of the Dean of Instruction. A student desiring make-up privileges for an absence must present legitimate reason to the professor and/or the Dean of Instruction.

At the beginning of each course, the professor indicates his absence policies to the students in his classes. Excessive absence and tardiness are handled administratively. A student who may have been dismissed from a course for excessive absences may be reinstated by permission of the Dean of Instruction.

The administrative attitude toward class absence indicates that the academically superior students should be allowed some flexibility in class attendance, and the academically inferior students should be under more rigid class attendance demands.

Absences immediately preceding and immediately following catalog vacations will be counted double.

A student who is absent when an examination is given must secure permission from the Dean of Instruction in order to take the examination. For a make-up examination which he is permitted to take, he will be charged $1.00 per semester hour except in the case of final examinations for which he will be charged $2.00 per semester hour.

Withdrawal from college is initiated through the Office of the Dean of Students. For purposes of billing and responsibility for class attendance, the date of notification of the Dean of Students is his official date of withdrawal. Withdrawal without notification calls for no refund in tuition. Failure to comply with this policy may result in loss of the privilege of readmission to the College, and forfeiture of the right to a clear transcript of credits for honorable dismissal.

Credits, Grades, and Quality Points

Credit is indicated in terms of the semester hour. Each semester hour unit signifies work completed in one fifty-minute recitation or two or more fifty-minute laboratory periods per week for a semester of sixteen to eighteen weeks or in an equivalent amount of time in summer sessions.

Grades are reported for work as follows: A, excellent; B, good; C, satisfactory; D, poor; F, failing; W, withdrawal, with the grades earned at the time of withdrawal from class. (All class withdrawals must be approved by the adviser and the Dean of Instruction. Withdrawal without approval effects automatically a grade of F); I, work incomplete. If a grade of I is not removed within one semester after the close of a course, the grade recorded on the permanent record automatically becomes an F.

Quality points are given for credits as follows: for a grade of A, 4 per semester hour; B, 3 per semester hour; C, 2 per semester hour; D, 1 per semester hour; F, no quality points.

Academic Requirements and Class Standing

The academic success of a student is measured in terms of grades and quality points. Although a grade of D is passing, a grade of C is considered the lowest satisfactory grade. When a student falls below a cumulative quality point-credit ratio of 2.00, which represents an average grade of C, he is on academic difficulty and will therefore be permitted to carry a maximum

emester hours in a given semester so that he may improve his situation. when his cumulative ratio has again reached 2.00 will he be permitted to y 16 to 18 semester hours' work in a given semester. When a student has a ity point deficiency, the Dean of Instruction will call him for a conference.

If at the end of his first semester in college the student has a cumulative ity point-credit ratio below 1.50, at the end of his second semester below), at the end of his second year below 1.90, or at the end of his third year w 2.00, he is placed on academic probation. A student on academic pro- on may be requested to withdraw from college any time the administration ecides after a consideration of his overall situation.

The student's class standing is determined on the basis of the number of dits he has earned. After earning 30 credits, he is considered a sophomore; 1 60 credits he is a junior, with 90 credits he is a senior.

Except in cases in which the curriculum outlines in the catalog such rses during the junior and senior years, or by special permission of the ademic Dean, a student who has earned 70 credits will not be given

semester hour credit or quality points for courses numbered below 200; he has earned 108 credits, he will not be given semester hour credit or qu points for courses numbered below 300. He may, however, take these cou to fulfill specific graduation requirements.

Dean's List and Graduation with Honors

A student having earned an average grade of B+, a quality point-cr ratio of 3.50 or above, is regarded by the college as having performed distinction.

Students earning a 3.50 or better quality point ratio in any given seme are placed on the "Dean's List of Honor Students."

At the time of his graduation, a student who has achieved a cumula quality point-credit ratio of 3.50 will be graduated with cum laude distinct with a ratio of 3.75, his honor will be magna cum laude; with a ratio of 3 he will receive summa cum laude distinction. A transfer student will rec honors only if he has earned 60 semester hours credit at Elizabethtown Coll if his total quality point-credit ratio is at least 3.50 and if his ratio Elizabethtown College is at least 3.50. Having met these requirements, he receive the honor indicated by his ratio on his Elizabethtown College w alone.

Graduation from Elizabethtown College

To be graduated from Elizabethtown College, the student must obtain semester hours credit, or in the case of engineering, medical technology, a nursing majors the number indicated in the course outline, and all of specific courses indicated, together with the requirements for his major fie No more than 10 semester hours' credit in Workshop courses is applica towards a degree; a Workshop in any area will be counted no more than t times.

Requirements will be governed by the catalog dated four years prior to individual's graduation, or by the catalog in effect at the time of his graduati if he so chooses.

In order for the student to meet graduation requirements, he must ha earned a minimum of 30 semester hours in classes on the Elizabetht College campus and a minimum of 30 semester hours in courses numbered 3 and above from Elizabethtown College.

Every graduate is required to have been in attendance in college for minimum of three years and thirty weeks unless he has earned a cumulati quality point-credit ratio of at least 3.00, in which case he may complete l work in three years and twenty weeks. Any deviation from this procedure mu have the approval of the Committee on Administration.

Elizabethtown College will graduate only those students who have met t moral and financial obligations incurred while they have been in pursuit their college courses. The completion of the required number of semest hours does not in itself constitute eligibility for graduation.

Degrees will not be granted in absentia without special permission by t Administrative Committee.

It is the responsibility of the candidate for a degree in February, May, August to make formal application for the degree in writing to the Dean Instruction at least eight weeks before graduation.

In order to be eligible for graduation, students must have a credit quali point ratio of at least 2.00. Students transferring from other colleges mu have a ratio of at least 2.00 in courses pursued in residence at Elizabethtow College.

All students enrolled at Elizabethtown College are guests of the Colleg The College at any time at its own discretion may terminate the enrollmer of a student.

Special Programs

ooperative Program of Undergraduate Study Abroad

HE six colleges associated with the Church of the Brethren are cooperating in a junior year of study in Germany and in France. German language ents may study at Philipps-Universitat. Marburg/Lahn, West Germany and French language students may study at the University of Strasbourg, sbourg, France. A wide selection of courses are offered in the social nces and the humanities. Students are given intensive language instruction r to the opening of the University semesters.

To qualify for this program, students must have completed the second of either German or French, and have an overall academic record of r within that range. Other qualifications include seriousness of purpose, d character, demonstrated potential for social adjustment and a basic understanding of the United States and the host country. A faculty adviser from one he cooperating colleges is in residence in Europe during the year.

Applications and information may be secured from the faculty adviser for Junior Year Abroad. The program accommodates about 20 students at rburg and about the same number at Strasbourg. Elizabethtown College a quota of about three of four for each university. The interested student uld confer with the Dean of Instruction and work closely with his major iser.

Tentative plans are being made for a junior year in a Spanish-speaking ntry. Inquiries may be made as to progress on this program.

Merrill-Palmer Institute

The Merrill-Palmer Institute of Human Development located in Detroit, chigan, has approved Elizabethtown College as a cooperating institution in undergraduate program in the behavioral sciences.

The Merrill-Palmer Institute, founded in 1920, is a non-degree granting ins ution of higher education. Its program includes teaching, research, and mmunity services.

The coeducational body is composed of both graduates and undergradus from colleges and universities throughout the United States and abroad.

In addition to pursuing advanced theory courses, the Merrill-Palmer undergraduate aids in conducting research and has the opportunity to meet and rk with some of the outstanding individuals in the field of behavioral ences today.

To be eligible, the student must be entering either the second semester of s junior year or the first semester of his senior year.

At the Institute, he will register for 15-17 semester hours, which will be cepted for credit when he returns to Elizabethtown the following semester.

Although the program is intended primarily for students in the behavioral iences, other students having an interest will be considered. Further inrmation may be obtained from the Chairman, Department of Psychology.

Teachers for West Africa Program

Elizabethtown College, under a grant from the Hershey Chocolate Corpotion, selects a limited number of applicants for teaching posts in the condary schools of Ghana and Western Nigeria. This grant is a concrete xpression of interest in bettering relations between the people of Africa and ie United States through a vital cooperation at the secondary school educaon level.

Elizabethtown College selects teachers with strong teaching fields in hemistry, physics, biology, mathematics, English, French, industrial arts, and usiness administration. They are recruited from the seniors and alumni of

colleges and universities of high academic standing. The teacher enters a contract with the employing African government, political subdiv Ministry of Education, or individual school. The Program makes it po for the teacher to be placed on the field for this employment by providin transportation and shipping costs for the teacher employed.

Further information can be obtained by contacting the Director, Dr. J. M. Berkebile, Elizabethtown College.

Harrisburg Area Center for Higher Education

In cooperation with The Pennsylvania State University, Temple Univer the University of Pennsylvania, and Lebanon Valley College, Elizabeth College offers accredited college level courses in Harrisburg through Harrisburg Area Center for Higher Education. Late afternoon, evening, Saturday classes are available. Students interested in course offerings sh contact the Center Office, 2991 North Front Street, Harrisburg, Pennsylva telephone 238-9694.

Summer Study

Elizabethtown College conducts two five-week summer sessions.

Summer sessions are organized for students who for urgent reasons w to devote their summers to study. In each term a student may enroll for three-semester-hour courses. It is possible for a student to earn tw semester hours of credit toward a degree by attending both sessions. In th full summers a student may complete the equivalent of a year's work.

Students interested in course offerings should contact the Director Summer Sessions, Elizabethtown College, Elizabethtown, Pennsylvania.

Part-Time Campus Courses

Teachers-in-service and others who can qualify for entrance into colle may enroll for courses for which there may be a sufficient demand to just the organization of a class.

Evening classes are organized for persons who find it possible to carry further preparation during their spare time.

A program of adult education is provided for those who wish to ta courses for their practical or cultural value. Courses in any of the areas list in this catalog will be offered upon demand.

Anyone interested in any of the above plans should write to the Dean Instruction.

Placement Services for Students and Alumni

Of vital concern to Elizabethtown College is the placement of its gradu ates in positions where they can prove most effective to themselves and t their employers. To this end a corps of workers is available for consultatio this corps consists of teachers, department heads, and the placement directo who coordinates the placement services.

These services are free and are available to underclassmen, seniors, an alumni. Services are available throughout the calendar year. They relate t permanent as well as part-time and summer jobs. They relate to business industry, the teaching profession and government.

STUDENT LIFE

Student Life and Values

'E great potential of a student body leads to great expectations on ampus and off campus—wherever students may be. These expectations e academic excellence, physical fitness, spiritual growth, and social com- e.

'he goal of education should be—as a famous educator notes—to acquire ols and vocabulary of learning, to establish habits of good taste and r discrimination, and to liberate the mind and spirit from inhibiting lices that prevent the full use of the student's capacities. Education d make the student averse to dishonesty, insincerity, and vulgarity.

Both men and women students need to be concerned about values. Men nts should respect and promote standards of honesty, sincerity, and good ing in all interpersonal relationships. Women are in a more strategic on to insist upon high standards of both thought and action. Women d be carriers of values esthetic and spiritual. They should communicate eir children, husbands, and acquaintances the excitement and satisfaction nay be derived from intellectual pursuits. Experience in insisting upon standards of both thought and action should be greatly enhanced by on a college campus. Such insistence clears the college image, orients tudents, and develops competence in all areas.

Guided by these great expectations, faculty, deans, and counselors need to the attention of students on the standards that are necessary to en- ned living, how these standards are formed, and how they are transmitted older to younger persons. In this process the more mature student may great assistance to the younger student.

In spite of the confusion in our present society about how to achieve goals, Elizabethtown College takes its stand as a Christian institution cting high standards of its students. The revolution in freedom of ex- ion in our society shall not be used as the rationalization for its existence. ts and privileges carry with them corresponding responsibilities. Accord- , the college should help both men and women students to set and tain satisfactory standards of belief and behavior in areas vital to their e existence. Elizabethtown College recognizes that although the goal of ation should be the same for both men and women, the personal interests long-term goals of men and women students are possibly different. This e nature of life and our society and should be a basic consideration in ing students.

College Policy on Alcohol

It is contrary to the policy of Elizabethtown College for students to k alcoholic beverages either on or off the campus while under College juris- ion. It is illegal in the Commonwealth of Pennsylvania for anyone under the of twenty-one years "to attempt to purchase, to consume, to possess or ransport alcoholic beverages." Students violating college and state regula- s are subject to immediate dismissal from college and liable to prosecution in courts of Pennsylvania (said prosecution refers to anyone under twenty-one, nyone older furnishing alcoholic beverages to anyone under twenty-one years ge). There is active enforcement of the college policy and state law. Students feel alcohol must be a part of college life should not attend Elizabethtown lege.

Student Life

THE total college experience is more than pursuing an academic ed tion. Life on the campus includes the dormitory groups, the dining r experiences, participation in the various religious, social and cultural ev and it includes a balanced program of extracurricular activities including sp drama, music, speech and other interest groups. The motto of Elizabeth College is "Educate for Service." It is expected that every student will some way to lend his talents in a voluntary way to serve his fellow stud In this manner an education becomes a full-time preparation for life. I cation takes place not only in the classroom but in the dining room, wi the dormitories, on the athletic fields, and at all places where students together in service with each other.

Student Government

All students are members of the Student Association. Elected represe tives serve the interests of the student body through the Student Sen Committees on Men's and Women's Affairs, United Campus Fellows campus clubs, publications and other organizations.

Student Senate

Student Senate is elected by the students and is responsible for ordinating the activities and interests of the student body. The Senat responsible for planning the major all-college social events that occur throu out the year, and they help to coordinate many of the weekend activit Senate members serve on many of the administrative committees represent students' interests in the day-to-day operation of the college.

All sessions of the Senate are open to members of the student bo Any student or group of students may attend Senate meetings and n present items of business or concerns before the Senate. The Senate meets least, monthly during the academic year.

Committee on Men's Affairs and Committee on Women's Affairs

The Student Association, through the Student Senate, has delegated p of its responsibilities directly concerned with men and women to the Co mittee on Men's Affairs and the Committee on Women's Affairs. Commit members are elected by ballot by members of the Student Association. T committees act in behalf of their respective groups, such as: dormitory counc intramural sports, enforcement of college rules and regulations, and the spons ing social events. The committees are related to the Offices of the Deans Men and Women.

Campus Clubs

There are many student organizations allowing students opportunity f self expression through vocational or avocational interests. Some of them a

Sock and Buskin—Dramatics
Society for Advancement of Management—Business
Pennsylvania State Education Association—Education
Eta Phi Sigma—Forensics
Modern Language Club—Foreign Languages
Political Science Club—Political Science students
Psychology Club—Psychology students
Music Educators Club—
Phi Beta Chi—Science students
American Chemical Society—Chemistry students

ETA GAMMA KAPPA—Church vocations
VARSITY E—Sports Letter-winners
YOUNG REPUBLICANS—All students
YOUNG DEMOCRATS—All students
CIRCLE K—College men's service organization
ABRAXES—Men's Honor Society
SIGMA LAMBDA SIGMA—Women's Honor Society
NIADS—Women's Swim Club

COLLEGE PUBLICATIONS AND COMMUNICATIONS

The Etownian—The college newspaper is published semi-monthly giving
s about campus life. The newspaper is designed to inform students about
pus affairs and to reflect student views. A monthly Alumni edition is
ared from the campus papers and is sent to alumni and others interested
ie college. College students receive their copies free.

Conestogan—Each spring a college yearbook is prepared to record the
lights on the campus during the year. All students receive a copy as part
heir student fees.

WWEC—From 5 p.m. until 11 p.m. students can tune to 740 on their
radio dials and receive the latest campus and world events plus informa-
on upcoming activities and a wide range of music. WWEC is a student
rated station serving students on the campus.

The Rudder—Each year the Student Government prepares a student hand-
k giving information concerning college life, college rules and regulations,
ntation for new students and general information needed at all times.
Rudder is published during the early summer and it is mailed to all
hmen and transfer students during the month of August.

The Elm—The literary magazine is composed of bits of creative writing
art by students. It is published at least once each year.

MUSICAL ORGANIZATIONS

The choral union, concert band, string orchestra, concert choir, chapel
ir, women's chorus, men's glee club and other smaller groups are oppor-
ities for interested students to serve the college in a musical way.

Further information may be obtained by referring to the pages in the
alog under "Department of Music, (B) Applied Music and Music Organi-
ions."

ATHLETICS

The college sports program includes a wide variety of interests covering
fall, winter and spring seasons.

Fall sports include:

Soccer—Men
Hockey—Women
Cross Country—Men

Winter sports include:

Basketball—Men's and women's teams
Wrestling—Men
Swimming—Men's and women's teams

Spring sports include:

Baseball—Men
Tennis—Men's and women's teams
Golf—Men

Students who are interested in a particular sport may contact the th letic director or the coach of the sport they are interested in. Junior Va ity teams are organized for some of the sports to give students an opportuni to play and to gain the necessary skills for varsity participation.

In addition an intramural program is scheduled for interested stu including football, basketball, volleyball, wrestling, tennis, bowling, swimr ping pong and archery.

Campus Religious Life

The nature of the religious life of the Elizabethtown College camp determined by its conviction to be a Christian institution and by the pe who make up the campus community. Administrators, faculty, and stuc are expected to exemplify Christian character at all times. Such a stater should not, however, be understood as requiring conformity to any spe denominational or other religious point of view.

The college has certain religious-academic requirements. These compulsory, weekly attendance at chapel services and required Bible philosophy courses. The purpose of chapel is to provide a weekly worship s ice for the college community, and to broaden and deepen the students' kn edge of the contemporary religious scene. Required religion courses are desig to provide better knowledge of Christian scriptures and religious iss Specific details regarding course requirements will be found elsewhere in catalog.

College Minister

The college minister is responsible for the weekly chapel program. also acts as an adviser to various religious groups on campus. He is availa as a pastoral counselor to any student who wishes to consult with h Students are assured that any counseling with the college minister is fully c fidential.

Church Receptions

Every fall at the opening of the first semester the churches of the a are invited to provide receptions for students of their affiliation. These ceptions take place simultaneously on a Sunday evening. All students encouraged to attend. This program informs the student of the interest local churches and encourages them to participate in the life of the church their choice on campus.

Denominational Fellowships

A number of denominations have chosen to form student groups and m regularly. Among those active at present are Lutheran, Church of the Bre ren, Christian Science, Episcopal, Roman Catholic and Presbyterian. T formation of such groups is encouraged. College facilities are available f their meetings.

Interdenominational Fellowships

There are two interdenominational religious groups. The United Camp Fellowship is in the tradition of campus YMCA work and attempts to carry a program of interest to all students. The Intervarsity Christian Fellowship a peals to the more conservatively oriented student and is also available to students.

Special Interest Groups

Some of the religious expression on campus is oriented in terms specialized interests. The Eta Gamma Kappa is a club for those planning

r a full-time Christian vocation such as the ministry. The Service Committee makes it possible for students to serve as tutors to public school students and to serve other needy people in the area. Another group has a project in Harrisburg assisting a city church in ministering to the inner city and its problems. The Race Relations Committee deals with an area of vital interest in our world today. The Youth Forum is a class held each Sunday during the church school hour to discuss contemporary religious issues. It is directed by a committee of students and is undenominational. A coffee house is now in the process of formation which will bring to our campus a new form of religious expression sometimes called the "leisure time" ministry. Other experiments in new forms of service are taking place.

Deputations

Two kinds of student deputation teams go to churches in the area. Preaching deputation teams lead worship services for churches who request them. A traveling drama group presents a religious drama, performing as many as 15 times during the year.

Religious Life Council

To coordinate the total religious life of the campus the Religious Life Council meets regularly. This body is made up of representatives of the various organizations mentioned above and acts as an advisory body to the college minister and as a policy body shaping the religious life program of the campus.

Housing Assignments

Housing assignments for men and women students are made by the offices of the Dean of Men and the Dean of Women respectively. Returning students are assigned housing during April and May following their registration for the Fall semester. Returning students who fail to complete their registration by the proper time and who do not get a housing assignment from the plans before the second semester closes, lose their housing priority for the Fall semester.

Returning students may request changes in housing assignments by notifying the Dean of Men or the Dean of Women until July 5 without penalty. After July 5, returning students may not change housing assignments without paying one-half of the first semester's room charges for the room reserved for them.

After July 5 new students will receive their room assignments. Insofar as possible, the College prefers to house freshmen in the dormitories. Incoming students may make requests for roommates and dormitories during May or early June. However, the College reserves the right to assign students to its facilities as it sees fit, honoring such requests that seem reasonable.

Students assigned to College-approved, off-campus homes and Honor Houses are considered resident students and are held responsible to the College in the same manner as other dormitory students.

Any resident student withdrawing from College or changing his residence status after September 1 must pay the first semester's room rent on the room reserved for him.

All resident students eat their meals in the College dining rooms regardless of the room assignment given to them.

Students wishing to be classified as a commuting student must commute from an established home (parental home, home of a blood relative, home of a close friend of the family designated by the parents, or a legal conjugal home).

Any exceptions to the above regulations are at the discretion of the College administration through the respective Deans.

CURRICULA

Curricula

Bachelor of Arts

THE course in Liberal Arts has for its objective a comprehension meaning of life and the development of an appreciation of its l It emphasizes cultural values.

The curriculum is also planned as a prerequisite for later specializa graduate study. The Liberal Arts degree is generally considered as p tion for librarians, journalists, lawyers, social workers, teachers and oth

Pre-Ministerial

Those who are preparing for the ministry should investigate the en requirements of the seminary in which they plan to secure their profe training. These will probably include the usual college requirements emphasis on English, speech, Greek and philosophy as well as various of Bible study. Such are the demands, however, on the present-day men that there are few subjects in the curriculum that would not con to his efficiency and he should seek at least an introductory course many fields as possible.

Pre-Legal

On March 15, 1928, the Supreme Court of Pennsylvania approve recommendation of the State Board of Law Examiners to place Elizabet College upon the list of colleges, degrees from which are accepte registration in lieu of preliminary examination.

The College recommends that the student who plans to enter the profession should follow a course leading to the Bachelor of Arts deg History and Political Science. This will make possible the election of c in economics, sociology, history, English, speech and other subjects.

It is also possible for graduates with the Bachelor of Science d particularly with a major in Business Administration, to meet all the re ments for entrance to law schools. Such students should select their el courses carefully in order to obtain as broad a background as possibl

Social Work

Students who desire to qualify as professional social workers s complete a four-year college course, and should have in addition at leas year of postgraduate work in an approved school of social work. Prefe they should take the full two-year course in a school of social work, le to the master's degree.

Students who wish to prepare for this field of study should follo program as outlined for the Bachelor of Arts degree with a major in Soci or Psychology.

Preparation for Journalism

The College recommends the course leading to the Bachelor of degree with an English major for those who are considering graduate wo the field of journalism and for those who plan to enter the field graduation. A broad background of liberal culture, a wide acquaintance literature in its various forms, a knowledge of the mechanics of lang fundamental work in journalism and an extensive experience in writing pr a sound preparation for journalistic and literary endeavor. The stu should make a careful choice of electives and should take advantag opportunities for practical experience offered by the college publications

Bachelor of Science

Biological and Physical Science and Mathematics

These courses permit opportunities for specialization in the fields of ogy, chemistry, physics, and mathematics. They are designed for students plan to enter graduate school, who wish to prepare to teach in the ls of science and mathematics, or who are looking forward to entrance n the study of medicine, dentistry, pharmacy, engineering, or other scien- pursuits. The curricula are planned so that a student may obtain under- luate training necessary for graduate work in biology, chemistry, physics, mathematics.

Students who expect to take up graduate work in science should consult department head of the field in which they expect to do their graduate rk to determine what courses are required as the necessary undergraduate paration.

Business

The Department of Business offers the following fields:

Business Administration
Accounting
Business Education—Teaching

The purpose of the curricula in Business is to provide students with sic methods of analysis and intellectual understanding so that they can arly express a problem, formulate a plan of solution, and then verify the ult to the end that society will benefit. Therefore stress is placed on the damental methodology of accounting, economics, finance, mathematics and man relations. All students of Business who receive a basic core of pro- sional courses in business administration should be able to succeed in eir chosen field. No student, however, is permitted to devote himself clusively to business subjects, but must become acquainted with the cultural, entific and humanitarian aspects of the world. Hence a balanced course is nned.

The curriculum in business administration gives training in the funda- ntals of business that will enable the student to obtain an intelligent derstanding of the principles of business. It provides for analysis for busi- ss and industrial facts, and for training in the ability to think through oblems with which he will be confronted in later life.

A student planning to enter the managerial phase of business will include in s program courses in business law, marketing, accounting, management, onomics, and business statistics.

A student planning to major in accounting will begin this subject in s freshman year and continue it in its various phases through his senior ear. The indispensable courses in corporation finance, in money and banking, nd in business law are begun in the junior year. Thus, by following the rogram as outlined, the student will obtain adequate training in accounting, ithout sacrificing general training.

A discussion of Business Education is to be found under Suggested rograms for students enrolling for the B.S. in Education.

The Healing Arts

The field of healing arts includes medicine, dentistry, osteopathy, veter- nary medicine, nursing, and laboratory technology.

In view of the fact that leading schools of medicine, dentistry, and steopathy have many more applicants for admission than they can accommo- late, it is evident that no student should plan to enter with only the minimum

requirements. It is strongly urged that all students who contemplate ent ng any of these fields take the full four years of the course in pre-me al sciences as outlined in the biology and chemistry curriculums. It is rare ha the College recommends anyone who does not meet the requirements f degree.

Medical Technology

Students preparing for this vocation need to complete a minimum o 90 semester hours in college and pursue a 12 to 18-month study in an appr ed hospital.

A student who completes the three-year curriculum outlined for ne field of medical technology will be granted a B.S. degree upon the comple n of the training program as outlined by an approved hospital and upon mee ng the certifying requirements of the Board of Registry of Medical Techn s gists.

The curriculum preparing students for medical technology in coopera n with accredited hospitals has been approved by the Board of Registry Medical Technologists, American Society of Clinical Pathologists.

Pre-Engineering

Elizabethtown College offers a cooperative program in engineering wh by a student may achieve a degree in liberal arts from Elizabethtown Coll and also an engineering degree from The Pennsylvania State University.

The three-two year plan is designed to give the engineering student th years of undergraduate work in engineering at Elizabethtown College to followed by two years at the cooperating institution. Upon the success completion of the five-year program, the student will receive the two abo named degrees.

Curriculums which Elizabethtown students will be qualified to enter Penn State include aeronautical, civil, electrical, industrial, mechanical, a sanitary engineering.

In order to be eligible for admission into The Pennsylvania State U versity, the student must be recommended by Elizabethtown College. T student will have the help of an adviser so that he may be properly guid toward the achievement of his goal.

Pre-engineering students interested in admission to universities other th The Pennsylvania State University should confer with the Director of En neering Programs in order to make proper arrangements with the school their choice.

Teaching

Elizabethtown College is approved by the Department of Public Instru tion of the Commonwealth of Pennsylvania for the preparation of teachers the following fields:

Business Education	Elementary Education
Secondary Education	Music Education

Provisional College Certificates

Elementary School Teachers

The provisional college certificate is issued to an applicant who has co pleted an approved four-year teacher educational curriculum in the elementa field and has been granted a baccalaureate degree from an accredited colleg It is valid for three full years of teaching in any public school of the Sta of Pennsylvania. The course must include Introduction to Education, Educ tional Psychology, Elementary School Art, Elementary School Music, Healt and Hygiene, plus additional courses to make a total of thirty hours in profe sional education.

The Bachelor of Science with a major in Elementary Education degree ts all the stated requirements. A student, by careful planning, may also t the requirements in the Bachelor of Arts degree program.

Elementary teacher certification requirements of other states may also net at Elizabethtown College.

Secondary School Teachers of Academic Subjects

The provisional college certificate is issued to an applicant who has pleted an approved four-year teacher education curriculum and has been nted a baccalaureate degree from an accredited college. It is valid for e full years of teaching in any public school of the State of Pennsylvania.

This certificate is based on the completion of 18 or more semester hours approved professional courses as follows: Introduction to Education, Edu- ional Psychology, Student Teaching, and electives to be chosen from courses initely related to teaching in the secondary schools. The Bachelor of Science h a major in Secondary Education degree meets all these requirements. A dent may also meet these requirements in various other B.S. degrees, and degree, Bachelor of Arts.

In consultation with his adviser the student should familiarize himself with specific subject matter requirements for the field in which he wishes to teach.

Music Teachers

The provisional college certificate is issued to an applicant who has com- ted an approved four-year music education curriculum and has been granted baccalaureate degree from an accredited college. It is valid for three full ars of teaching in any public school of the State of Pennsylvania.

Students desiring to meet certification requirements for teaching music the public schools of Pennsylvania will find a program at Elizabethtown llege geared to qualify them to teach either vocal or instrumental music both the elementary and secondary levels.

Preparation of Business Education Teachers

Elizabethtown College is approved by Pennsylvania for the preparation of achers of business education, and offers a wide program of courses in that ld.

Departmental Offerings

Number Code and Glossary

Courses are numbered according to the following pattern:

Numbers 100 to 199	for freshman courses
Numbers 200 to 299	for sophomore courses
Numbers 300 to 399	for junior courses
Numbers 400 to 499	for senior courses

Course Descriptions:

An Example:

Bio 101 General Biology 3-2-4
Bio 102 General Biology 3-2-4 Prereq. Bio 101

Bio 101 is the course number and designation.

General Biology is the course title.

In 3-2-4, the first numeral (3) signifies the number of 50-min periods of formal class or recitation meetings per week. The second nume (2) is the number of 50-minute class periods devoted to laboratory exercises p week. The third numeral (4) signifies the total semester hours credit for course in one semester.

Credits are expressed in semester hours. One semester hour is one (1) 5 minute period of class, lecture, or recitation per week for one semester.

The last column (Prereq. Bio 101) lists the conditions by which t course may be taken:

Prereq. — prerequisite, the given course or courses must have been earn prior to registration for the course listed; e.g. credit in Bio 1 must have been secured before registration for Bio 102.

Coreq. — corequisite, here a course may have been had prior to regist tion for the course in question or it may be taken simultaneou with that course.

P.O.I. — permission of the instructor. Registration for the course m be made only after securing written permission of the instructor listed teach the course.

The Curricula

Elizabethtown College offers courses leading to the following degrees:

Bachelor of Arts—

A student may earn the degree of BACHELOR OF ARTS completing the Bachelor of Arts CORE program, the requir courses for a major in any one of the Departments of Englis Engineering, History and Political Science, Modern Language Psychology, Religion and Philosophy, or Sociology and Anthr pology, and meeting other college requirements as listed els where.

Bachelor of Science—

A student may earn the degree of BACHELOR OF SCIENC by completing the Bachelor of Science CORE program, the r quired courses for a major in the Departments of Biolog Business, Chemistry, Education, Forestry, Mathematics, Medic Technology, Music, Nursing, or Physics, and meeting the oth college requirements as listed elsewhere.

Curricular Requirements for the Degree

The requirements for the degree are outlined below. Each student will work out an individual program directed toward the objectives of his chosen major. This program will embody the complementary principles of distribution and concentration and will include 128 semester hours.

A. There is a core of courses for each degree common to all programs because of the important part they play in helping to develop the total personality.

The Core

Courses	*B.A. hrs.*	*B.S. hrs.*	
English 101-102	6	6	In order to master the rudiments of clear thinking, writing and speaking.
Literature	6	6	To help gain a discerning appreciation of the heritage of all people. Courses may be elected in English or Modern Language.
Modern Language	6	–	To aid the understanding of other peoples and other cultures. Performance equivalent to two years of a language study is required.
Fine Arts	3	3	To gain understanding of and discrimination in the aesthetic disciplines.
Religion	6	6	No book has affected Western civilization to such an extent as has the Bible.
Philosophy or Ethics	3	3	To help understand the speculative disciplines and basic principles of Christian morality.
History	6	6	To help gain a sense of continuity of civilization and a background for the contemporary scene.
Social Sciences Psychology	9	9	To promote understanding of one's self and others through study of the factors influencing human behavior.
Political Science			To understand the implications for the individuals and for society of government.
Economics			To help the individual to comprehend the implications for himself and society of the various economic theories.
Sociology-Anthropology			To aid understanding of the patterns by which men have associated themselves in society.
Mathematics or Logic Mathematics	3	6	To become acquainted with the theory and practice of basic abstract thinking.
Natural Science	8	8	To help understand the laws of the physical and living worlds and the methods of scientific inquiry.
Physical Education	4	4	To increase the understanding and application of the basic principles of individual and community health.

B. In addition to the Core the student will select a field of concentra
where the student will gain a reasonable mastery of his field of special inte
and thus match depth in one field with the breadth of studies provided fc
the Core. The field of concentration shall be chosen before the end of
sophomore year in consultation with an advisor.

C. Other electives will be selected to complete a total of 128 seme
hours, including a minimum of 30 semesters of courses numbered 300 or ab

Department of Biology

The Biology Department presents a program designed particularly for students interested in graduate study and research in the biological sciences and related fields, as well as in preparation for advanced training in specific professions. In addition, it provides the necessary training and course requirements for students desiring to teach biology and the related sciences in the secondary schools.

Major Requirements: A minimum of 26 semester hours of Biology.

Suggested Programs—B.S. in Biology

Pre-Medical and Graduate School Curriculum

Freshman Year	*1st Sem.*	*2nd Sem.*
Biology 101-102	4	4
Chemistry 101-102	4	4
English 101-102	3	3
Mathematics	4	4
Psychology-Religion	3	3

Sophomore Year	*1st Sem.*	*2nd Sem.*
Biology	3-4	3-4
Chemistry 201-202	4	4
Literature	3	3
Mathematics	3	–
Language	3	3
Physical Education	1	1
Religion	–	3

Junior Year	*1st Sem.*	*2nd Sem.*
Biology	3-4	3-4
Chemistry 301	4	–
History	3	3
Language (or Elective)*	3	3
Physical Education	1	1
Social Science	3	3

Senior Year	*1st Sem.*	*2nd Sem.*
Biology	4	4
Fine Arts	–	3
Philosophy 201-Religion 251	3	–
Physics 201-202	4	4
Elective	3	4

* Language must be scheduled if 100 level language was scheduled in Sophomore year.

Biology Education Curriculum

Freshman Year	*1st Sem.*	*2nd Sem.*
Biology 101-102	4	4
Chemistry 101-102	4	4
English 101-102	3	3
Mathematics*	3	3
Psychology 101-Religion 101	3	3
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2*
Biology 203-303	4	
Biology 308	4	
Education 101-Elective*	3	
Literature	3	
Religion 202	–	
Sociology 101-Social Science	3	
Physical Education	1	

* Mathematics 115 must be completed before end of Sophomore year.

Junior Year	*1st Sem.*	*2nd Sem.*
Biology 301-302	4	3
Physics 201-202	4	4
History 301-302	3	3
Education 203-360	3	3
Electives	3	–

Senior Year	*1st Sem.*	*2*
Biology 407	4	
Biology 412	4	
Philosophy or Ethics	3	
Education 441-451	–	1
Education	–	
Electives	5	

Courses of Instruction

Bio 101 General Biology 3-2-4
Bio 102 General Biology 3-2-4 Prereq. Bio 101
A study of the science of life, its concepts and principles, through considerati of the structure, function, and life histories of representative animals a plants.

Bio 203 Plant Biology 2-4-4 Prereq. Bio 102
Basic studies in the field of Botany as a foundation for advanced stu

Bio 205 Microbiology 2-4-4 Prereq. Bio 102 and Ch 102
An introduction to the general principles and techniques of the study microorganisms.

Bio 256 Histological Technique 2-4-4 Prereq. Bio 102 and Ch 102
Basic training in the preparation of plant and animal tissue for study und the microscope.

Bio 301 Comparative Anatomy of Vertebrates 2-4-4 Prereq. Bio 1
A detailed comparative study of the morphology of vertebrate organ syste in representative species.

Bio 302 Mammalian Anatomy 1-4-3 Prereq. Bio 102
Comprehensive anatomy of the domestic cat.

Bio 303 Taxonomic Ecology of Plants 2-4-4 Prereq. Bio 102
Introduction to the study of the identification and distribution of the floweri plants of the local area.

304 EMBRYOLOGY 2-4-4 Prereq. Bio 102
tudy of the comparative vertebrate development from the fertilized egg
he formation of the principal organs of the body.

305 GENERAL PHYSIOLOGY 2-3-3 Prereq. Bio 102
c elements that make the machinery of the body function; shows the
ose of anatomy.

306 HISTOLOGY 1-4-3 Prereq. Bio 102 and P.O.I.
study of cells as organized into the tissues and organs of representative
ebrates.

308 INVERTEBRATE BIOLOGY 2-4-4 Prereq. Bio 102
nprehensive study of the Animal Kingdom in a phylogenetic sequence with
icular emphasis on the invertebrates.

407 GENETICS 2-2-3 Prereq. Bio 102
introduction to the study of the principles of heredity.

412 TECHNIQUES IN BIOLOGY 0-6-3 Prereq. 16 semester hours in Biology and P.O.I.
thods in preparing demonstrations, collecting and preserving materials, and
ted techniques. Offered for prospective teachers and graduate students.

414 CELL PHYSIOLOGY 1-4-3 Prereq. Ch 301 and Ch 202
hemical and physical approach to the understanding of cell mechanisms.
ch independent work is expected of the student. Topics vary from year
year.

495 SPECIAL PROBLEMS IN BIOLOGY Credits variable Prereq. a minimum of 16 semester hours in Biology and P.O.I.
signed to acquaint the advanced student with the problems involved in
ividual work in Biology.

Department of Business

The Department of Business seeks to prepare students for positions responsibility in the economic and business worlds and in government. also provides a sound education in economics and business subjects for thc students who plan to teach, enter the legal or accounting professions, or fu ther their education through graduate study.

The Department offers courses leading to three degrees—Bachelor Science in Accounting, Bachelor of Science in Business Administration, a Bachelor of Science in Education with a major in Business Education.

Suggested Program—B.S. in Accounting

Freshman Year	*1st Sem.*	*2nd Sem.*
Accounting 105-106 ...	3	3
English 101-102	3	3
Mathematics 113	3	–
Mathematics 162 or 168	–	3
Psychology 101**	–	3
Religion 101**	3	–
Science	4	4
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2n Se*
Accounting 205-206 ..	3	3
Business Administration 201-202	3	3
History	3	3
Literature	3	3
Religion 202**	3	–
Sociology 101**	–	3
Physical Education	1	1

Junior Year	*1st Sem.*	*2nd Sem.*
Accounting 305-306 ..	3	3
Business Administration 214	3	–
Business Administration 303**	3	–

Senior Year	*1st Sem.*	*2n Se*
Accounting 405	3	–
Accounting 406	–	3
Accounting 407	3	–
Accounting 408	–	3

Business Administration 324**	–	3
Business Administration 331-332	3	3
Business Administration 345-346	3	3
Electives*	2	3
Business Administration 365	3	–
Fine Arts**	3	–
Philosophy or Ethics**	–	3
Political Science**	–	3
Electives*	3	3

Six hours of electives must be taken outside the field of business.
* May be taken either semester.

Suggested Program—B.S. in Business Administration

Freshman Year	*1st Sem.*	*2nd Sem.*
Accounting 105-106	3	3
English 101-102	3	3
Mathematics 113	3	–
Mathematics 162 or 168	–	3
Psychology 101 or Sociology 101**	–	3
Religion 101**	3	–
Science	4	4
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2nd Sem.*
Accounting 305	3	–
Business Administration 201-202	3	3
Business Administration 214	–	3
History	3	3
Literature	3	3
Religion 202**	3	–
Sociology 101 or Psychology 101	–	3
Physical Education	1	1

Junior Year	*1st Sem.*	*2nd Sem.*
Business Administration 303**	3	–
Business Administration 324**	–	3
Business Administration 331-332	3	3
Business Administration 345	3	–
Business Administration 365	–	3
Political Science	3	–
Electives*	5	6

Senior Year	*1st Sem.*	*2nd Sem.*
Fine Arts**	3	–
Philosophy or Ethics**	–	3
Electives*	12	12

* Of the 35 hours of electives, 21 hours must be taken in accounting or business administration, with 3 hours in either BA 301-302, 305, 306, 403 or 404. 6 hours must be taken outside the field of business.
** May be taken either semester.

Suggested Program—B.S. in Business Education

Freshman Year	*1st Sem.*	*2nd Sem.*
Accounting 105-106	3	3
English 101-102	3	3
Mathematics 111 or 113	3	–
Mathematics 162 or 168	–	3
Psychology 101-Religion 101	3	3
Science	4	4
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2nd Sem.*
Business Administration 201-202	3	3
Literature	3	3
Religion 202**	3	–
Sociology 101**	–	3
Physical Education	1	1
Electives*	6	6

Junior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
Business Administration 214	3	–	Business Administration 355	–	
Business Administration 331-332	3	3	Business Education 421	3	
Education 101	3	–	Business Education 435	3	
Education 203	–	3	Education 451	8	
Education 302	–	3	Fine Arts	–	
History 301-302	3	3	Philosophy or Ethics	–	
Electives*	3	6	Political Science	–	
			Electives*	–	

* See certification requirements which follow.
** May be taken either semester.

Certification Requirements Effective October 1, 1963

Business Education may be written on a provisional college certific upon the completion of thirty-six (36) semester hours including twelve sem ter hours distributed in at least four (4) of the following subjects: bo keeping, business law, business organization and management, office pract (required course), principles of selling, and economics; and upon the co pletion of the requirements of two or more of the following:

Bookkeeping	12 semester hours
Retail Selling	9 semester hours
Shorthand	9 semester hours
Typewriting	6 semester hours

The interpretation of the above is as follows:

"Business education written on the certificate is valid for teaching bu ness law, general business, office practice, and principles of selling, provid two (or more) of the following are also written on the certificate: boo keeping, retail selling, shorthand, and/or typewriting.

Regulations

1. A person certified in English may teach business English and/or person certified in mathematics may teach business mathematics.

2. A person certified in business education may teach business Engli upon the completion of fifteen (15) semester hours in English, includi business English.

3. A person certified in business education may teach business math matics upon the completion of fifteen (15) semester hours in bookkeepi and business mathematics.

Courses of Instruction

Accounting

Ac 105 Principles of Accounting 2-2-3

Ac 106 Principles of Accounting 2-2-3 Prereq. Ac 105
An introductory course designed to familiarize the student with fundament accounting principles and methods.

Ac 205 Intermediate Accounting 3-0-3 Prereq. Ac 106

Ac 206 Intermediate Accounting 3-0-3 Prereq. Ac 205
A thorough study of the use and composition of various and alternate accoun

i concepts and generally accepted accounting principles; prevailing account-
i theories in determining net income; the use of fund and cash flow state-
r nts.

212 Personal Income Tax Accounting 2-2-3
survey course in preparation of individual income tax returns; a study of
at constitutes income and expense and how to report them on tax forms;
t saving devices for the individual. (Not an elective course for a major in
ccounting.)

305 Cost Accounting 2-2-3 Prereq. Ac 106
survey of the elements of costs and their application in job order, process
st, standard and direct cost systems.

306 Advanced Cost Accounting 2-2-3 Prereq. Ac 305
continuation of the theory and practice of cost accounting, with emphasis
managerial utility of data, planning, control and decision making.

405 Auditing 3-0-3 Prereq. Ac 306
n analysis of the responsibilities and work of an auditor, the purpose and
nds of audits, systems of internal control and check, standard auditing pro-
dures and tests, auditor's reports and opinions.

406 Advanced Accounting 3-0-3 Prereq. Ac 306
detailed study of accounting for partnerships and corporations; comparative
atements, analysis of working capital, insurance, installment sales; an intro-
uction to accounting for consolidations.

407 Tax Accounting 3-0-3 Prereq. Ac 306
study of the important provisions of the Federal Tax law pertaining to
dividuals, partnerships, and corporations, using illustrative examples, selected
uestions and problems, and the preparation of returns.

408 C.P.A. Problems 3-0-3 Prereq. Ac 306
course designed especially for students of advanced accounting who are
lanning to take state examination for qualification as a Certified Public
ccountant.

490 Seminar in Accounting 3-0-3 Prereq. P.O.I.
study of selected topics currently under discussion in the accounting field.
major research project will be required.

Business Administration

BA 201 Principles of Economics 3-0-3
BA 202 Principles of Economics 3-0-3 Prereq. BA 201
beginning course in the principles and problems of economics; production,
nonopoly, public finance, national income, money, banking, business cycles,
alue, price, supply and demand, wages, rent, interest, and profits.

BA 214 Principles of Marketing 3-0-3 Prereq. BA 201
An investigation of the strategies employed in marketing; a description of the
ervices provided by the various middle-men; an analysis of the basic market-
ng functions; description of the government's role in marketing; and marketing
fficiency.

BA 301 Intermediate Economic Theory 3-0-3 Prereq. BA 202
BA 302 Intermediate Economic Theory 3-0-3 Prereq. BA 202
A study devoted to the structure of markets, pricing of goods, pricing of the factors of production and general equilibrium theory. During the second semester macro-economics will be emphasized including national income ac-

counting, monetary, and fiscal stabilization policies, a comparison of e Classical and Keynesian policy recommendations.

BA 303 Money and Banking 3-0-3 Prereq. BA 202
A study of the monetary system and the credit and banking system of e United States; emphasis on Federal Reserve System, government fiscal pol debt management, credit control and other monetary problems.

BA 304 Economic Geography 3-0-3
A study of society's allocation of natural resources to various areas; the pr lem of underdeveloped nations today; land form, minerals and agricult economic aspects of major industries of the world.

BA 305 Comparative Economic Systems 3-0-3 Prereq. BA 202 or P.C Examination, criticism and appraisal of alternative economic systems; ca talism, socialism, communism, and mixed economic systems.

BA 306 Development of Economic Doctrine 3-0-3 Prereq. BA 2 Economic science as it developed from the classical tradition of Smith, Ricar and Malthus to the modern economics of Keynes and Schumpeter.

BA 307 Economics of Transportation 3-0-3 Prereq. BA 202
Application of principles of economics to the various modes of transpc economics of transport pricing; development of transportation in the Unit States; the urban transportation problem; transport regulation; formulati and analysis of public policy.

BA 312 Principles of Advertising 3-0-3 Prereq. BA 214
An analysis of the steps undertaken in preparing specific advertisements, a praisal of the various media available to the advertiser, investigation of metho used in testing the effectiveness of advertising, procedures used in prepari the complete advertising campaign.

BA 313 Principles of Retailing 3-0-3 Prereq. BA 214
Buying and selling activities; merchandise budgeting and inventory contr store location, appearance and layout; training and supervision of employe credit policies; pricing policies; use of gross margin, expense and profit figur as guides to decision making.

BA 314 Principles of Salesmanship 3-0-3 Prereq. BA 214
The principles of personal salesmanship including preparation for and obtai ing the interview, constructing and presenting the sales talk; steps in maki and closing sales; prospecting; sales techniques.

BA 324 Corporation Finance 3-0-3 Prereq. Ac 106
An analysis of the management of a corporation's funds. Emphasis is place on the impact and importance of various securities in the capital structur Consideration is given to growth and decline of individual corporations.

BA 331 Business Law 3-0-3
BA 332 Business Law 3-0-3
A study of law and legal procedure and their relation to business considerin the essential principles of the law of contracts, agency, employer-employe negotiable instruments; second semester—bailments, carriers, sales, partne ships, corporations, insurance, security devices, property, bankruptcy, trus and estates, torts and business crimes.

BA 345 Introduction to Business Statistics 2-2-3
A course to develop familiarity with statistical reasoning and statistical method Topics included: sources, collection, and presentation of statistical data; meas ures of central tendency and dispersion; sampling; statistical inference; co relation, index numbers; and time series analysis.

BA 346 Advanced Topics in Business Statistics 3-0-3 Prereq. BA 345
A course specifically designed for students who wish to explore more completely, topics introduced in BA 345. Specific areas of coverage will be determined according to the interests of the students enrolled.

BA 355 Data Processing 3-0-3
Basic course in the fundamentals of IBM Punch Card Equipment. Course covers all basic wiring principles and machine operation.

BA 356 Basic Computer Concepts 3-0-3
Course designed for familiarization with computer systems. Major topics include stored program logic, types of storage and their uses, fundamentals of input and output media, computer arithmetic and processing principles, block diagraming and problem definition techniques.

BA 365 Principles of Management 2-2-3
Application of scientific principles of business organization and management in a modern industrialized economy; planning, organizing, coordinating, directing, and controlling functions. Also outside readings and cases.

BA 403 International Economics 3-0-3 Prereq. BA 202
An introduction to the basis and importance of international trade and relations, international payments, and national and international controls; the course provides a combination of theory and policy, presenting the theoretical foundations of international economics as a prelude to the examination of policy.

BA 404 Economic Problems 3-0-3 Prereq. BA 202
An application of economic principles to such problems as inflation and deflation, full employment, economic stagnation, credit control, monopolies, and controlled economics.

BA 415 Principles of Marketing Research 3-0-3 Prereq. BA 214
The use of the scientific method in solving marketing problems; steps in planning effective surveys; preparation of questionnaires, collection, tabulation, analysis and interpretation of data; writing meaningful reports; statistical sampling, proper use of internal records and secondary sources of information.

BA 424 Investments 3-0-3 Prereq. BA 324
Sources and uses of information available to the investor. Specific study of classes of investments. Analysis of financial statements.

BA 456 1130 Commercial Computer Programing 3-0-3 Prereq. BA 356
A commercially oriented course utilizing the 1130 FORTRAN language in conjunction with the commercial subroutines FORCOM and COMET. Students will learn the 1130 principles of operation and will write several programs.

BA 466 Production Management 3-0-3 Prereq. BA 202, 214, 365, and Ma 113
A critical study of management decision-making techniques, emphasizing the practical application of scientific methods to analysis of production activities. Areas include resource allocation, production cycle, diversification and simplification, plant layout and process control.

BA 467 Personnel Administration 3-0-3
Principles and practices for the effective utilization of the labor force, including: recruitment and selection; training of employees; transfer and promotion; communication and employee morale; determining job requirements; performance evaluations; health, safety and employee welfare; job analysis and labor audits; handling of grievances; administrative correlation; wages, salaries and hours.

BA 468 Industrial and Labor Relations 3-0-3
An evaluation of the historical development of the union movement and collective bargaining process; union-management relationships, procedures the alleviation of tension, alternatives to force, the role of government partici tion and control in the realization of industrial peace.

BA 491 Seminar in Marketing 3-0-3 Prereq. BA 214 and P.O.I.
A course designed to integrate previously taken marketing offerings by stress the managerial function. Techniques used are case studies, readings, proje and simulated marketing decision devices.

BA 492 Seminar in Management 3-0-3 Prereq. P.O.I.
Offered in one of the following fields: morality in organization; plann models and decision making; application of behavioral science in manageme or production—marketing interaction.

Business Education

BEd 101 Elementary Gregg Shorthand 3-0-3
BEd 102 Elementary Gregg Shorthand 3-0-3 Prereq. BEd 101 P.O.I.
An intensive study of Gregg Shorthand Simplified; emphasis upon theory, plication, phrasing, dictation of connected matter, reading from shortha plates, vocabulary building, and the dictation and transcription of new mate at varying rates of speed.

BEd 111 Elementary Typewriting 2-2-2
BEd 112 Elementary Typewriting 2-2-2 Prereq. BEd 111 or P.O.I.
Training in fundamental typewriting technique; machine operation, keyboa technique, word drills, letter forms, tabulations, manuscript set-up, preparati of business and legal papers, speed and accuracy building.

BEd 201 Advanced Gregg Shorthand 3-0-3 Prereq. BEd 102 or P.O.
A thorough review of shorthand theory; dictation and transcription coveri a wide range of businesses for the development of the vocabulary, and a vanced phrase building.

BEd 211 Advanced Typewriting 1-2-2 Prereq. BEd 112 or P.O.I.
Development of job production techniques, especially for skill in rapid pr duction of commercially acceptable and mailable copy.

BEd 321 Business Correspondence 3-0-3
A study in effective communication of ideas and information in the mode business world; the letter, the report, the advertisement, inquiry forms su as the interview and the questionnaire.

BEd 421 Office Practice 8 (8 weeks)-3
Development of skill in operation of calculating, dictating, and duplicatir machines; principles of filing; mailing procedures; telephone techniques; r lated duties.

BEd 435 Methods and Principles of Business Education 6 (8 weeks 0-3
A thorough consideration of the methods of teaching business subjects i secondary schools including the selection and adaptation of curriculum ma terials.

Department of Chemistry

The basic courses offered in this department are designed to cultivate a ientific spirit and habit. The more advanced courses are designed to prepare e student for further work in industry, graduate school, or medicine. A quence of courses is designed for students who want to teach chemistry ı a secondary level.

For the professional chemist, the best possible background in mathe- atics, physics, and German is desired. For those engaged in medicine, an xtensive background in biology is desired. The studies in communication kills and the humanities, which round out a liberal arts education, make for very full curriculum for those majoring in this department.

Suggested Programs—B.S. in Chemistry

Graduate School and Industry Curriculum

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
Chemistry 101-102 ...	4	4	Chemistry 201-202 ...	4	4
English 101-102	3	3	Literature	3	3
German 201-202	3	3	Mathematics 231-232 .	4	4
Mathematics 131-132 ..	4	4	Physics 201-202	4	4
Physical Education	1	1	Electives*	3	3
Religion-					
Social Science	3	3			

* If German 101-102 were taken during Freshman year German 201-202 must be elected here.

Junior Year	*1st Sem.*	*2nd Sem.*
Chemistry 301-312 ...	4	4
Chemistry 303-304 ...	4	4
History	3	3
Social Science-Fine Arts	3	3

Senior Year	*1st Sem.*	*2* *S*
Chemistry 421-422	4	
Chemistry Elective ...	4	
Philosophy	–	
Physical Education	1	
Social Science-Religion	3	
Electives	2	

Pre-Medical Curriculum

Freshman Year	*1st Sem.*	*2nd Sem.*
Biology 101-102	4	4
Chemistry 101-102 ...	4	4
English 101-102	3	3
German 201-202	3	3
Mathematics 131-132 .	4	4

Sophomore Year	*1st Sem.*	*2* *S*
Chemistry 201-202	4	
Elective*	3	
Mathematics 231-232 .	4	
Physics	4	
Physical Education	1	

* If German 101-102 were taken during Freshman year German 201-202 must elected here.

Junior Year	*1st Sem.*	*2nd Sem.*
Biology	4	4
Chemistry 301	4	–
Chemistry 303-304 ...	4	4
Literature	3	3
Physical Education	–	1
Religion	3	3
Social Science	–	3

Senior Year	*1st Sem.*	*2* *Se*
Chemistry 422	4	-
Fine Arts-Social Science	3	3
History	3	3
Philosophy	3	–
Physical Education	1	–
Social Science	–	3
Elective	–	3

Chemistry Education Curriculum

Freshman Year	*1st Sem.*	*2nd Sem.*
Chemistry 101-102 ...	4	4
English 101-102	3	3
German 201-202	3	3
Mathematics 131-132 ..	4	4
Physical Education	1	1
Religion-Social Science	3	3

Sophomore Year	*1st Sem.*	*2n* *Se*
Chemistry 201-202 ...	4	4
Elective*	3	–
Literature	3	3
Mathematics 231-232 ..	4	4
Physics	4	4
Religion	–	3

* If German 101-102 were taken during Freshman year German 201-202 must t elected here.

Junior Year	*1st Sem.*	*2nd Sem.*
Chemistry 301	4	–
Chemistry 303-304	4	4
Education	3	6
History 301-302	3	3
Physical Education	1	1
Religion-Social Science	3	3

Senior Year	*1st Sem.*	*2nd Sem*
Chemistry 422	4	–
Fine Arts	3	–
Social Science	3	–
Education 441 and 451	–	11
Philosophy	3	–

Ch 101 GENERAL CHEMISTRY 3-3-4 Prereq. H.S. Algebra or Equivalent
Ch 102 GENERAL CHEMISTRY 3-3-4 Prereq. Ch 101
Ch 104 GENERAL CHEMISTRY 3-3-4 Prereq. Ch 101
A tudy of the principles of chemistry from the viewpoint of the modern hory of atomic and molecular structure. Ch 101 will be taken by all students duing the first semester and either Ch 102 or Ch 104 must be taken during th second semester. Ch 102 will treat in detail the principles of chemical ecilibria in aqueous solutions and must be taken by all students who will take ei er Ch 201 or Ch 301. Ch 104 is designed for the student who will take no further courses in chemistry and will include brief treatments of organic chmistry and other selected topics which are otherwise studied in depth in several advanced chemistry courses.

Ch 201 ORGANIC CHEMISTRY 3-3-4 Prereq. Ch 102
Ch 202 ORGANIC CHEMISTRY 3-3-4 Prereq. Ch 201
A study of the compounds of carbon, aliphatic and aromatic; their properties, synthesis, structures, uses and mechanism of their reactions.

Ch 301 QUANTITATIVE ANALYSIS 2-8-4 Prereq. Ch 102
Principles and practices of laboratory determinations by gravimetric, volumetric, and colorometric analysis together with the mathematical basis for these procedures.

Ch 303 PHYSICAL CHEMISTRY 3-4-4 Prereq. Ch 202, Ma 232 and Phy 202 Coreq. Ch 301

Ch 304 PHYSICAL CHEMISTRY 3-4-4 Prereq. Ch 303
An expansion and coordination of previous courses as related to the physical states of matter, solutions—homogenous and heterogeneous, equilibria, thermodynamics, and the interrelationship of these quantities through mathematics; laboratory emphasis on the application of physical measurements to the solutions of chemical problems.

Ch 312 INSTRUMENTAL ANALYSIS 2-8-4 Prereq. Ch 301 and Ch 303
Analysis through the use of modern instruments and techniques. Emphasis on chemical and physical theory that makes instruments useful.

Ch 321 RADIOCHEMISTRY 3-3-4 Coreq. Ch 301
A study of physical and chemical properties of radioactive compounds and some of their applications.

Ch 322 BIOCHEMISTRY 3-3-4 Prereq. Ch 202
A study of the chemical processes involving living matter.

Ch 401 ADVANCED INORGANIC CHEMISTRY 3-3-4 Prereq. Ch 312
A study of complex ions and coordination compounds, bonding theories, oxidation—reduction potentials, and the more common elements.

Ch 421 QUALITATIVE ORGANIC ANALYSIS 2-8-4 Prereq. Ch 202
A study of properties of functional groups of organic compounds, with application of these principles used in the identification of pure organic compounds and of mixtures of organic compounds.

Ch 422 ADVANCED ORGANIC CHEMISTRY 3-4-4 Prereq. Ch 202 and Ch 304
A study of organic synthesis and physical organic theory and methods.

Ch 495 SPECIAL PROBLEMS IN CHEMISTRY Variable Prereq. P.O.I.
Designed to acquaint the advanced student with the problems involved in individual work in Chemistry.

Department of Education

The function of the professional education program at Elizabethtown ollege is to prepare teachers to qualify for elementary and secondary school aching.

Each applicant who is planning to teach must declare his intention to e Director of Teacher Training during the second semester of the sophomore ear and meet the qualifications of the Committee on Teacher Education. The asis of criteria formulated by the Teacher Education Committee is listed elow. Applicants who do not meet the requirements are counselled out of ie teacher education program and directed into other areas. The criteria re as follows:

1. Approval of major department
2. English proficiency
3. Speech proficiency
4. Good physical, emotional, and mental health record
5. Scholarship: grade point ratio of 2.0 or better
6. Personal qualifications: Approval of the Dean of Men or the Dean of Women

No student will be recommended for state certification if he has any grade below "C" in his teaching major.

Information concerning certification in other states may be obtained from he Department of Education of each state.

General Requirements for Teachers

The Commonwealth of Pennsylvania has established the following Professional Education Requirements for all teachers:

Eighteen semester hours of professional education courses distributed the following areas:

1. Social foundations of education
2. Educational Psychology and human growth and development
3. Materials and methods of instruction and curriculum (Related to s ject matter specialization field or fields)
4. Actual practicum and student teaching (Related to the subject mat specialization field or fields)
5. Secondary majors are required to take Education 360

With these courses a student in the Liberal Arts or Science curricula v be certified to teach in the area of his concentration if it be Biology, Chemist English, Foreign Language, History and Political Science, Mathematics, Social Studies. A Liberal Arts or Science student may be certified to tea in the elementary schools with the eighteen semester hours in professio education listed above in addition to the following courses:

1. A course in the teaching of reading
2. Eighteen (18) to twenty-four (24) semester hours (effective October 1964) selected from a minimum of four of the following areas in Elementa Education: mathematics, arts and crafts, music, physical education, langua arts, sciences, social studies, geography, mental hygiene, or a course deali with exceptional children.

Electives should be in areas in which a student wishes to be certifie State requirements are as follows:

	Semester Hou
English	36
Foreign Language	24
History	24
History and Government	24
Mathematics	24
Biology	24
Chemistry	24
Physics	24
Physics and Mathematics	24

General Science—24 semester hours covering 2 or more sciences.
Comprehensive Science—40 semester hours, consult advisor.
Social Studies—36 semester hours, consult advisor.

Suggested Program—B.S. in Education

Elementary Education

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
Education 101*	3	–	Religion 202	–	3
English 101-102	3	3	History 101-102 or Geography 103-106	3	3
Biology 101-102	4	4	Education 202*	3	–
Psychology 101*	–	3	English 201-202	3	3
History 101-102 or Geography 103-106	3	3	Earth Science 101 or 102	4	4
Religion 101	3	–	Physical Education 251*	–	3
Sociology 101*	–	3	Electives	5-8	2-6
Physical Education 102 or 104	–	1			

Junior Year	*1st Sem.*	*2nd Sem.*
Education 317*	6	–
History 301	3	–
Mathematics 325-326 ..	3	3
Education 354*	–	3
Music 303	3	–
Education 318	–	3
Education 302*	–	3
Psychology 312*	–	3
Education 322*	3	–
Electives	–	3

Senior Year	*1st Sem.*	*2nd Sem.*
Education 313**-314 ..	3	3
Education 352	3	–
Education 442**	3	–
Education 453* **	8	–
Humanities 351	–	3
Philosophy or Ethics ..	–	3
Political Science 252 ..	–	3
Electives	–	6

May be taken either semester.
* Courses taken during eight (8) weeks period.

Suggested Program—B.S. in Education

Secondary Education

Freshman Year	*1st Sem.*	*2nd Sem.*
English 101-102	3	3
Biology 101-102	4	4
Religion 101	3	–
History 101-102	3	3
Psychology 101*	–	3
Language or Mathematics	3	3
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2nd Sem.*
Religion 202	3	–
Geography 103*	–	3
Sociology 101-Anthropology 111* .	3	3
English 201-202	3	3
Education 203-Education 101*	3	3
History 301-302	3	3
Electives	3	3

Junior Year	*1st Sem.*	*2nd Sem.*
Education 332*	3	–
English 321*	3	–
Philosophy	–	3
Education 334	–	3
Education 360	–	3
Education 302*	3	–
Physical Education	1	1
Electives	6-8	6-8

Senior Year	*1st Sem.*	*2nd Sem.*
Education 441**	3	–
Education 451**	8	–
Electives	6	18

* May be taken either semester.
* Courses taken during eight (8) weeks period.

Courses of Instruction

Education

Ed 101 Introduction to Education 3-0-3
An orientation course acquainting prospective teachers with the opportunities and requirements of the profession; a study of the role of education in American society, and the social, historical, and philosophical forces which have influenced the school.

Ed 202 Educational Psychology 3-0-3 Prereq. Psy 101
This course emphasizes the application of the principles and data of psychology to the problems of learning and teaching. It includes the study of classroom situations through illustrative examples, films, and direct observation.

Ed 204 Educational Sociology 3-0-3 Prereq. So 101 or Ed 101
Sociological facts with particular educational implications with attention
community life and personality contacts and adjustments.

Ed 210 Special Class Methods 3-0-3
This course is concerned with the theory and application of instruction of
mentally retarded. Critical examination of the diagnosis and classification
mental retardation provide the basis for the intensive study of differential ai
organizations, curriculums, and techniques related to teaching the spec
classes.

Ed 302 Audio-Visual Education 3-0-3
Designed to present the fundamental principles of visual and sensory aids u
in the schoolroom; various types and techniques applied to subject matter.

Ed 310 Psychology of Exceptional Children 3-0-3 Prereq. Psy 1
Ed 311 Psychology of Exceptional Children 3-0-3 Prereq. Ed 31
An overall consideration of children who deviate from the generally accep
patterns of expected developments, with special attention to problems
mentally superior, mentally retarded, and physically handicapped children.

Ed 313 Curriculum in Arithmetic 3-0-3
This course includes the mastery of the fundamentals of arithmetic as presen
taught in grades 1-6, together with the application of the fundamental psyc
logical principles in teaching the subject.

Ed 314 Curriculum in Science 3-0-3
Survey of science content appropriate to various grade levels in the elementa
school, with emphasis on the methods and materials of instruction.

Ed 315 Reading in the Elementary School 3-0-3 Prereq. Junior stan
ing
A study of principles and procedures underlying the teaching of basic skills
the elementary reading program, including a presentation of a variety
modern materials and techniques in reading instruction.

Ed 316 English in the Elementary School 3-0-3 Prereq. Junior stan
ing
Deals with the aims, methods, and materials in the teaching of language ar
in grades 1-6. Attention will be focused on oral and written expression, han
writing and spelling.

Ed 317 Language Arts in the Elementary School 6-0-6 Prere
Junior standing
This course is designed to give the elementary student a knowledge of the mo
recent techniques, materials, and methods in the language arts area; th
nature of the reading process, communication skills related to listening, speakin
writing, and linguistics. Attention is focused on interrelationships in languag
arts. This course combines the content of Ed. 315 and 316.

Ed 318 Teaching of Music in the Elementary School 3-0-3 Prere
Mu 303
Acquaints the prospective elementary classroom teacher with methods an
materials used in the teaching of music.

Ed 320 Arts and Crafts for Special Classes 3-0-3
Ed 321 Arts and Crafts for Special Classes 3-0-3
Especially organized to meet the needs of teachers of special education; in
struction in woodwork, plastic, cork, paper, novelties, leather, use of salvag
materials, and clay modeling.

E 322 Teaching of Public School Art 3-0-3
Designed to prepare the student to teach public school art; includes drawing, the elementary principles of design, lettering, composition, and color harmony and their application to home, school, and community interests.

E 332 Principles and Practices of Secondary Education 3-0-3
An integrated course designed to include methods and techniques, materials, and resources related to the subject matter major; the organization of the knowledge for learning, including team teaching techniques and unit planning, evaluative instruments applicable to the teaching of secondary subjects.

E 334 Educational Measurements 3-0-3
Aconsideration of the better known personality, intelligence, and achievement tests and an introduction to statistics and their use.

E 342 Educational Guidance 3-0-3
The history, principles, problems, procedures, organization, administration, and supervision of educational and vocational guidance; special attention to the importance of guidance and personnel service at various educational levels.

E 344 Safety Education 3-0-3
A study of the history and development of safety education, the psychology of accident prevention, driver education, sports education, industrial safety techniques, and measuring the results of safety education.

E 350 Special Class Teaching - -1 Prereq. P.O.I.
Observation, classroom teaching, and conferences in special education with supervisors, for a period of one semester. *By appointment.* Fee $45.00, including tuition.

E 352 Teaching of Social Studies 3-0-3
Designed to acquaint the prospective teacher with the current practices and trends in teaching social studies. Students will have opportunity to develop resource units and to evaluate social studies in class. Emphasis will be placed on unification of subject matter and a variety of learning experiences.

E 354 Children's Literature 3-0-3 Prereq. Junior or Senior standing
An interpretative and critical study of literature for children, including selected readings, fiction and non-fiction, and a study of illustrators and the history of writing for children.

d 360 Reading in the Secondary School Academic Subjects 3-0-3
An overview of the elementary reading program as a base for developing the understandings and improving techniques for developing skills applicable to the secondary student. The course is planned to help the teacher provide a developmental reading program with respect to the secondary academic subjects.

d 365 Diagnostic and Remedial Reading 3-0-3
A survey of recent research concerning reading difficulties is used to acquaint students with problems and needs common to incompetent readers. Methods, materials, and demonstrations are utilized. Each student is required to participate in the construction and practice in testing, planning, and directing remedial groups.

d 370 Comparative Education 3-0-3
An analysis and comparison of the educational systems of the United States, France, England, Germany, the Soviet Union, and other countries in regard to teacher preparation, curriculum, school administration, and educational purposes.

Ed 380 Problems in Education 3-0-3
This course deals with problems in curriculum, organization, planning methods studied in relation to their historical, philosophical, psychological, sociological background.

Ed 403 History and Philosophy of Education 3-0-3
An analysis of the history of education from early Greek times to the pres a study of the nature of knowledge and the theories of great thinkers as what the final goals of education should be and how they may be obtain provides a background from which the student can formulate his philoso of education.

Ed 421 Teaching Speech in Secondary Schools 3-0-3
A study of the problems, methods, and materials in the teaching of speech secondary schools with a primary emphasis upon classroom procedu analysis of textbook, periodical and pamphlet materials; tests and rating sca relationships to extra class speech activities.

Ed 422 Speech Correction and the Classroom Teacher 3-0-3
Training in the recognition, diagnosis, and treatment of minor speech def with discussion of major speech defects; reinforcing and following up work of the professional speech therapist.

Ed 441 Professional Practicum Including School Law (Second majors) 3-0-3
Ed 442 Professional Practicum Including School Law (Element majors) 3-0-3

se designed to prepare students for their practice teaching. Techniques aching and lesson planning for the students' special field are considered. sylvania school laws relevant to the work of the classroom teacher are ed. Observations are made of various classroom procedures. Both sters and summer session.

51 PRACTICE TEACHING—SECONDARY 6 - 8 Prereq. Ed 332 and Ed 441

453 PRACTICE TEACHING—ELEMENTARY - - 8 Prereq. Ed 315, Ed and Ed 442
rvation, participation, and practice teaching in the public schools; special tion to lesson plans, discipline, classroom technique, and the measuring esults; conferences and discussions. (The student is required to achieve verage grade of C in any field in which he wishes to do practice teaching.) e student teacher is required to provide for his own transportation.)

490 SENIOR SEMINAR IN EDUCATION 3-0-3 Prereq. Ed 441 and P.O.I.
gned to acquaint seniors who wish to do graduate work with methods of arch in Education. Advanced students are given an opportunity to apply principles of research in a research project.

GEOGRAPHY

g 103 WORLD GEOGRAPHY 3-0-3
tudy of the physical factors in man's environment and his adjustment to n; the world's landform features and mineral resources, climates, soils, vegetation types and the political, economic, and social responses of man hem.

g 106 GEOGRAPHY OF UNITED STATES AND PENNSYLVANIA 3-0-3
tudy of the geography of the United States including physiography, climate, natural vegetation, cultural, economic and political patterns, special attention is given to the geography of Pennsylvania.

EARTH SCIENCE

101 EARTH SCIENCE I 3-2-4
ystematic study of the earth including its relationship to the universe, the r system, and a consideration of its basic parts. It includes introduction to ic principles of astronomy, meteorology, and geology. Investigation will made to the structure and function of the atmosphere, hydrosphere, and osphere and their relationships.

102 EARTH SCIENCE II 3-2-4
study of the earth's past as recorded in the rocks of the surface, a consideration of the biological realm of geologic time dating methods, and anatomy the continents. Consideration will be given to the evolution of the landpes and the geological history of North America. Also, consideration will given to the moon and its effect on various phenomenon and features of s satellite.

FINE ARTS

211 OIL PAINTING 3-0-3 Prereq. P.O.I.
truction in the practices of studio easel painting in the oil medium, with phasis on still-life compositions. Open also to non-college enrollees.

351 HISTORY AND APPRECIATION OF THE FINE ARTS 3-0-3
study of the fine arts in the modern Western epoch and the underlying sthetics that have variously characterized them.

Department of English

The Department of English, in keeping with the objective of the Colle recognizes its responsibility of not only training students in the effective of the English language, but also in contributing to their cultural grow Accordingly, proficiency in the communication skills (reading, writing, spe ing, and listening) and in creative reading and appreciation of literature, c tributing to the all-around development of the students, may be considered fundamentally the aims of the instructional program.

Major Requirements: A minimum of forty-two (42) semester hou including the courses En 101-102, En 301-302, En 305, En 321 (12 hour selected from En 303, 307, 308, 309, 401, 402, 407) and (3 hours from 405, 406, 408), En 490.

* Students wishing to be certified in Education may substitute the required En for 3 of the 12 hours.

Suggested Program—B.A. in English

Freshman Year	*1st Sem.*	*2nd Sem.*
English 101-102	3	3
History 101-102	3	3
Foreign Language (second year)	3	3
Mathematics or Logic-Humanities or Music	3	3
Psychology 101-Religion 101	3	3
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2n Se*
English 201-202	3	
English 301-302	3	
Science	4	
Religion 202-Philosophy 201	3	
Social Science	3	
Physical Education	1	

ior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
lish 305-			English 490		
nglish 321	3	3	(either semester) ...	3	3
anced Literature* .	3-6	3-6	Advanced Literature* .	3-6	3-6
ory 205-206	3	3	Electives	6-12	6-12
tives	3-6	3-6			

dvanced Literature Courses include as requirements at least four courses (12 urs) from En 303, 307, 308, 309, 401, 402, 407, and one course (3 hours) from n 405, 406, 408.

Suggested Program—B.A. in English

(with certification in Education)

shman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
lish 101-102	3	3	English 201-202	3	3
tory 101-102	3	3	English 301-302	3	3
eign Language			Science	4	4
second year)	3	3	Religion 202-		
hematics or Logic-			Philosophy 201	3	3
Humanities or Music	3	3	Education 101	3	–
chology 101-			Education 202	–	3
Religion 101	3	3	Physical Education	1	1
sical Education	1	1			

ior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*Either Semester*
glish 305-			Education 441	3
English 321	3	3	Education 451	8
tory 205-206	3	3	Advanced Literature*	6-9
ucation 360-			English 490	3
History 301-302 ...	3	3	Electives	6-9
glish 342	–	3		
vanced Literature* .	3-6	3-6		
cial Science	3	3		

dvanced Literature Courses include as requirements at least three courses (9 ours) from En 303, 307, 308, 309, 401, 402, 407 and one course (3 hours) from n 405, 406, 408.

Courses of Instruction

101 English Composition 3-0-3
102 English Composition 3-0-3 Prereq. En 101
course in the principles of writing compositions, mostly in expository and rsuasive discourse. Second semester is devoted largely to writing the docu- nted library research paper.

103 Advanced Placement Composition 3-0-3 Prereq. Placement test one-semester acceleration of En 101-102, with enrollment open only to dents earning superior scores in the college English-achievement tests. Will bstitute for En 102.

201 Survey of English Literature 3-0-3 Prereq. En 102
202 Survey of English Literature 3-0-3 Prereq. En 102
study of selections in poetry and prose from the Anglo-Saxon period to e present with emphasis on literary movements and appreciation of literature elf.

En 215 JOURNALISM 3-0-3 Prereq. En 102
En 216 JOURNALISM 3-0-3 Prereq. En 215
An introductory study of new media and news-values, with emphasis on e
tive news reporting through the analysis and writing of news stories, edito
and feature articles.

En 301 AMERICAN LITERATURE 3-0-3 Prereq. En 102
En 302 AMERICAN LITERATURE 3-0-3 Prereq. En 102
Representative authors and periods from the Colonial Period to the pre
a careful study of the major part of the work of the best writers.

En 303 ENGLISH LITERATURE BEFORE 1500 3-0-3 Prereq. En 201 and
202
Literature of the Old and Middle English Periods with emphasis on Chau

En 305 SHAKESPEARE 3-0-3 Prereq. En 201 and En 202
A consideration of the origin and development of the English drama toge
with a study of the chief plays of Shakespeare.

En 307 THE SIXTEENTH CENTURY 3-0-3 Prereq. En 201 and En 202
Tudor prose and poetry. Elizabethan and Jacobean drama. (Alternate ye

En 308 THE SEVENTEENTH CENTURY 3-0-3 Prereq. En 201 and En
A study of English literature from the death of Elizabeth I to 1660, inclu
Milton but not the dramatists. (Alternate years)

En 309 THE EIGHTEENTH CENTURY 3-0-3 Prereq. En 201 and En 20
The poetry and prose of Restoration and Eighteenth Century England, exc
ing the novel. (Alternate years)

En 321 SPEECH 3-0-3
An introduction to the study of effective speaking; emphasis upon pr
articulation, poise, interpretative reading, listening, semantics, speaking f
notes, preparing outlines and organizing speeches; participation in extra
ricular forensic activities.

En 322 ADVANCED SPEECH AND DEBATE 3-0-3 Prereq. En 321
A consideration of processes and techniques of effective communication p
tice; drill in parliamentary procedure, discussion, speaking, listening, seman
and radio speaking.

En 342 LINGUISTICS, ADVANCED GRAMMAR AND COMPOSITION 3-0-3
req. En 102
An investigation of English language and usage to the present time, with st
upon etymology, phonetics, morphology, syntax, and applied linguistics.

En 401 THE ROMANTIC MOVEMENT 3-0-3 Prereq. En 201 and En 20
Poetry and prose from 1787 to 1830 with major emphasis upon Blake, Wo
worth, Coleridge, Shelley, Byron, and Keats. (Alternate years)

En 402 THE VICTORIAN PERIOD 3-0-3 Prereq. En 201 and En 202
A study of poetry from Tennyson to Yeats and nonfictional prose from Ca
to Wilde. (Alternate years)

En 405 CONTEMPORARY POETRY 3-0-3 Prereq. En 202 or P.O.I.
A consideration of the chief poets since 1890 with emphasis upon close-rea
of the texts.

En 406 MODERN DRAMA 3-0-3 Prereq. En 102
A study of the major European and American dramatists from Ibsen to
present. (Alternate years)

En 407 The Eighteenth and Nineteenth Century English Novel 3-0-3 Prereq. En 102

A udy of selected masterpieces as works of prose art, as turning points in h development of the form, and as reflections of the age. (Alternate years)

En 408 Contemporary Novel 3-0-3 Prereq. En 202 or P.O.I.

A udy of the work of major novelists of the Twentieth Century with emphasis up1 the development of the novel as an art form. (Alternate years)

En 490 Senior Seminar 3-0-3 Prereq. P.O.I.

Stu ies in the methods of literary criticism, the aim of which is to enable tu ents to develop for themselves a sound approach to literature.

En 495 Literary Studies Variable Prereq. P.O.I.

Th course is designed to give the individual student an opportunity to pursue wo k in an area of major interest under the guidance of a member of the De artment.

Fine Arts

FA 361 Great Books 3-0-3 Prereq. P.O.I.

FA 362 Great Books 3-0-3 Prereq. P.O.I.

Th s course is designed to introduce the student to the great ideas of the We tern world by reading in primary sources the literary works of major co tributors to our Western intellectual heritage. Wide reading and a discu ion of the material read will constitute the primary requirements of the cla s. Since the success of this type of course depends upon a relatively sm ll number of participants, the size of the class will be limited. Open to ju iors and seniors.

Department of History and Political Science

The study of history fulfills the need of man to orient himself in t
The historian believes that the present is what the past has made it and
no real understanding of the conditions and problems of life today is pos
without a knowledge of the forces and events which shaped them.

Aside from cultural opportunities offered by history courses, they
a student opportunities to develop in three ways that will be useful to
every day regardless of his future place in life: he can learn to produ
synthesis of the knowledge thus discovered so that the relationships betv
fact and ideas can be comprehended in a meaningful pattern.

The aim of the History and Political Science Department is in harm
with the basic objectives of the liberal arts, i.e., to produce graduates bro
and humanely educated and prepared through intellectual discipline to ass
a career in any of the professions, business, or government service. In a
tion, the programs offer a sound preparation for those qualified students
wish to pursue further study at the graduate level.

Major Requirements: A minimum of 39 semester hours is required
the History and Political Science majors. History majors are require
elect PS 252 and a minimum of six (6) hours in non-American and
European areas.

Secondary Education majors should consult that department for ce
cation requirements and fit them into the areas reserved for General Elect
Social Science majors should choose their electives in such a way as to as
a minimum of six (6) hours in each of the following: Economics, Sociol
and Political Science.

Suggested Program—B.A. in History

hman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
lish 101-102	3	3	Mathematics or Logic .	3	–
ory 101-102	3	3	Social Science	–	3
eign Language	3	3	Literature	3	3
gion 101-			Science	4	4
sychology 101	3	3	History 301-302	3	3
al Science	3	3	Religion 202	3	–
sical Education	1	1	Elective	–	3
			Physical Education	1	1

ior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
e Arts	3	–	History 490	3	–
losophy 381	–	3	Philosophy or Ethics ..	–	3
tory Electives	6	6	History Electives	6	6
ctives	9	6	Electives	6	6

e:

. Minimum major requirement is 39 hours.

. A minimum of 6 hours must be selected in fields other than European or American History.

Suggested Program—B.A. in Political Science

shman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
glish 101-102	3	3	Mathematics or Logic .	3	–
tory 101-102	3	3	Social Science	–	3
reign Language	3	3	Literature	3	3
igion 101-			Science	4	4
Psychology 101	3	3	History 301-302	3	3
cial Science	3	–	Physical Education	1	1
litical Science 101 ..	–	3	Religion 202	3	–
ysical Education	1	1	Electives	–	3

ior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
ne Arts	3	–	Political Science		
ilosophy 381	–	3	Electives	6	6
litical Science			Political Science 490 ..	3	–
Electives	6	6	Philosophy or Ethics ..	–	3
ectives	9	6	Electives	6	6

Courses of Instruction

History

101 History of Western Civilization 3-0-3
102 History of Western Civilization 3-0-3
brief survey of the development of Western Civilization from its earliest ginning to the present day; stress on long-range movements and trends; aims give the student a basic knowledge of his own political, economic, and ltural background.

i 203 History of the Renaissance and Reformation 3-0-3
survey of the history of Europe from about 1400 to 1648; a portrayal of e transition of European society, institutions, and thought from the Middle ges to modern times.

Hi 204 History of Europe During the Seventeenth and Eighteenth Centuries 3-0-3
The age of absolutism in Europe from 1648 to Napoleonic times; emphasis on the politics and diplomacy of the older European powers as well as the arrival of Russia and Prussia into the family of nations, the intellectual foundations of political and economic liberalism as a background to the nineteenth century, and the imperial struggles between European powers.

Hi 205 English History 3-0-3
Hi 206 English History 3-0-3
A consideration of the entire span of English History from the most ancient times to the present with special attention to the development of parliamentary government.

Hi 301 History of the United States and Pennsylvania 3-0-3
Hi 302 History of the United States and Pennsylvania 3-0-3
An introductory survey of major developments and movements in the history of the United States with consideration of social, cultural, political, and economic trends; attention to the history of Pennsylvania as it reflects significant trends in the history of the United States.

Hi 305 Economic History of the United States 3-0-3 Prereq. Hi 302 or P.O.I.
A study of the development of American economic life from the agrarian economy of the Colonial Period to the highly complex industrial economy of the present day. (Alternate years)

Hi 306 Recent History of the United States 3-0-3 Prereq. Hi or P.O.I.
The development of the United States since 1890 with emphasis on social, intellectual, and economic implications. (Alternate years)

Hi 307 Nineteenth Century Europe 3-0-3
A portrayal of the history of Europe from the Congress of Vienna to World War I, with particular emphasis on the political, social, economic, and diplomatic development of Europe in this period.

Hi 308 Twentieth Century Europe 3-0-3
A general survey of World War I and a characterization of twentieth century society; the focus is on the rise of totalitarian ideologies, the plight of democracy, the great depression, and the effect of both World Wars.

Hi 311 History of Africa 3-0-3
A survey of the history of Africa, with special emphasis on the growth of African states and empires, the impact of Islam, and the development and break-up of the age of imperialism. (Alternate years)

Hi 313 Russian History 3-0-3
Hi 314 Russian History 3-0-3
The development of Russia from its medieval origins to the present, with emphasis placed on the development of Czarist institutions, and on Russia since the revolution of 1917.

Hi 321 History of Latin America 3-0-3
Hi 322 History of Latin America 3-0-3
The history of Latin America from the period of discovery to the present with emphasis on the society and politics of the contemporary period. (Alternate years)

H 401 History of the Far East 3-0-3
H 402 History of the Far East 3-0-3
A broad survey of Chinese, Japanese, and Korean history from the beginning to the present. Study includes political, economic, social, religious, and philosophical development as well as the response of the Far East to the western impact. (Alternate years)

H 403 Diplomatic History of the United States 3-0-3 Prereq. Hi 302 or P.O.I.
A study of the major developments in the international relations of the United States from colonial times to the present day. (Alternate years)

H 407 The Ancient World 3-0-3
A survey of the Ancient Orient, followed by detailed consideration of Greece, Hellenistic imperialism, Rome, and the rise and fall of the Roman Empire. Emphasis on social, political, and cultural problems of the general period. (Alternate years)

H 408 Medieval History 3-0-3
A survey of the history of Europe from 300 A.D. to 1500 A.D.; development and subsequent decline of medieval institutions; emphasis on the religious, political, economic, and intellectual currents in the West and to some extent in the East, on the development of the Christian Church and Christian thought and philosophy in their historic setting, and on the early foundations of Modern Europe. (Alternate years)

Hi 490 The Senior Seminar 3-0-3 Prereq. 24 hours in History
P.O.I.
A study of the methods employed in historical research, the development
historical writing, and some of the dominant views or explanations of hist
A major research project will be required. Required for all senior Hist
majors.

Hi 495 Special Problems in History Variable Prereq. 24 hours in H
tory and P.O.I.
Designed to offer independent study, making use of techniques of histor
interpretation in specific problem areas.

Political Science

PS 101 Introduction to Government 3-0-3
A study of the basic types and functions of government along with an appra
of the advantages and disadvantages of each. Emphasis is placed on
individual's role in institutions peculiar to each governmental system and
democratic governments and institutions in particular.

PS 202 State and Local Government 3-0-3
A study of governmental organization and functions at the state, county, c
borough, and township levels. Relationships between federal, state and lc
governments are stressed.

PS 305 Constitutional Law 3-0-3
PS 306 Constitutional Law 3-0-3
A study of the evolution and development of the American Constituti
Leading decisions of the Supreme Court are studied and evaluated w
emphasis on current decisions and cases. Potential interpretations and chan
are discussed in the light of historic as well as recent developments.

PS 313 International Relations 3-0-3
The theory and practice influencing the relations between states with spec
emphasis on the more important international organizations. (Alternate yea

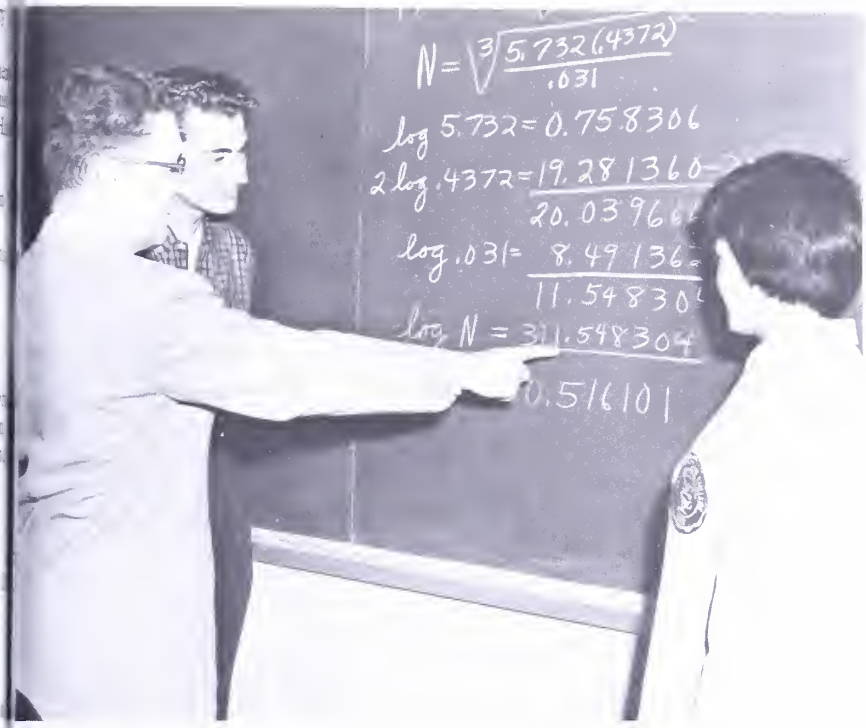
PS 352 American National Government 3-0-3
A survey of the political institutions of the United States and their evoluti
to the present day with emphasis on the contemporary period.

PS 401 Public Administration 3-0-3
A course concerned with the general management of government offices w
emphasis on federal and state offices; includes organization of executive offic
administrative controls, personnel procedures, and methods to achieve adm
istrative objectives.

PS 402 Political Theory 3-0-3
An analysis of the development of significant political ideas from the Gre
city-state to the present. (Alternate years)

PS 414 Comparative Governments 3-0-3 Prereq. Hi 307 and 308
P.O.I.
A comparative study of the political structure and institutions of select
nations of the world with some consideration of their historical developme
This course will operate as a seminar when class size permits.

PS 490 Senior Seminar 3-0-3
A study of research techniques and the development of modern methods
analysis and presentation of data in the field of political science. A maj
research project will be required. Required of all senior Political Scien
majors.



Department of Mathematics

The courses in mathematics are designed to prepare the mathematics major for teaching or graduate school; to furnish the students of engineering and science the necessary mathematical background for use in their fields; and to give students of other departments the experience of mathematical reasoning and acquaintance with mathematical methods.

Major Requirements:

A. A minimum of 18 semester hours of mathematics for which Mathematics 232 is Prerequisite.

B. For students obtaining mathematics certification 15 semester hours of courses in mathematics numbered 300 or above are required.

Suggested Program—B.S. in Mathematics

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
English 101-102	3	3	Fine Arts	3	–
Modern Language	3	3	Literature*	3	3
History 101-102	3	3	Mathematics 231-232 .	4	4
Mathematics 131-132 ..	4	4	Religion 202	–	3
Physical Education	1	1	Science	4	4
Psychology 101	–	3	Social Science	3	3
Religion 101	3	–			

*Literature from English Department or number 300 or above course from Modern Language Department.

Junior Year	*1st Sem.*	*2nd Sem.*
History, Literature or Science	3-4	3-4
Mathematics	3	3
Mathematics	3	3
Physical Education	1	1
Elective	6	6

Senior Year	*1st Sem.*	*2* *S*
Mathematics	3	
Philosophy 282 or Religion 351	3	
Elective	8	1

Courses of Instruction

Ma 111 Intermediate Algebra 3-0-3
Designed for students who do not have the necessary secondary school w in mathematics to prepare them for College Algebra. This course inclu basic principles and drill necessary for College Algebra.

Ma 113 College Algebra 3-0-3 Prereq. Ma 111 or acceptable mat matics placement test score
A fundamental course in college mathematics serving as a basis for furt study in mathematics at various levels.

Ma 114 Higher Algebra 3-0-3 Prereq. Ma 113
A continuation of work in algebra including the following topics: theory equations, determinants, permutations and combinations, probability, mathematical induction.

Ma 115 Trigonometry 3-0-3 Coreq. Ma 113 and P.O.I.
The concepts of plane triangle solving and analytical trigonometry with st on the latter; serves as a background for further mathematics and scie courses.

Ma 131 Mathematical Analysis 4-0-4 Prereq. Acceptable mathema placement test score
A modern, unified presentation of algebra and trigonometry; a foundat course for further study in mathematics, physical science, or engineering.

Ma 132 Calculus with Analytic Geometry (Part I) 4-0-4 Prereq. 113 and Ma 115 or Ma 131
Inequalities, functions, graphs, limits, continuity; differentiation and integ tion of algebraic functions with applications.

Ma 162 Mathematics of Business 3-0-3 Prereq. Ma 111 or P.O.I.
Specific elementary topics with business applications; simple interest, b discount, credit charges, chain discounts, logarithmic computations, and e mentary compound interest. Not applicable for hour requirements for mathematics major.

Ma 168 Mathematics of Finance 3-0-3 Prereq. Ma 113
A non-calculus level course including: simple interest, logarithmic compu tion, compound accumulation and present value, general annuities, cert bonds, sinking funds, and introductory life insurance and life annuities.

Ma 174 Survey of Mathematics 3-0-3
Ratio, proportion, and variation; and introduction to finance, probability, sta tics; and the following areas of modern mathematics: the basis of our numb system, theory of numbers, and logic. Designed as a terminal course in mat matics.

M 231 Calculus with Analytic Geometry (Part II) 4-0-4 Prereq. Ma 132

M 232 Calculus with Analytic Geometry (Part III) 4-0-4 Prereq. Ma 231
ic sections; differentiation of transcendental functions with applications; d analytic geometry, vectors, series, partial differentiation, and multiple gration.

M 303 Modern Algebra 3-0-3 Prereq. Ma 232
Mentary theory of sets, groups, rings, integral domains, and fields.

M 304 Linear Algebra 3-0-3 Prereq. Ma 303
ctor spaces, matrices, determinants, application to systems of linear equa-ns, and linear transformations on a vector space.

M 314 Mathematical Statistics 3-0-3 Prereq. Ma 232
e concepts and methods of probability and statistics; proofs of theorems sented when possible; applications covered to a limited extent.

M 325 Modern Mathematics for Elementary Education 3-0-3 Prereq. Junior Elementary Education Majors

M 326 Modern Mathematics for Elementary Education 3-0-3 Prereq. Ma 325
course designed to present mathematical concepts needed by prospective mentary school teachers. Sets, logic, induction, sets of numbers, numeration systems, operations, algorithms, geometry, problem solving, and other pics.

Ma 331 Differential Equations 3-0-3 Prereq. Ma 232
he solution of ordinary differential equations, covering first and second order uations and linear equations; basic infinite series methods; stress on theory d on applications in science and engineering.

Ma 332 Modern Geometry 3-0-3 Prereq. Ma 232
uclidean and non-Euclidean geometry from a modern viewpoint, acquainting e student with the development of geometric thinking during the past enty centuries and with recent discoveries.

Ma 431 Advanced Calculus 3-0-3 Prereq. Ma 232
Ma 432 Advanced Calculus 3-0-3 Prereq. Ma 431
ritical study of functions, limits, continuity, derivatives, and integrals. Theory infinite series and special topics. Emphasis on theory rather than applica-on.

Ma 406 Set Theory and Topology 3-0-3 Prereq. Ma 232
troduction to set theory including cardinal numbers, order, and the axiom choice. Introductory point set topology stressing topics of importance for he application of topology to real analysis.

Ma 490 Seminar in Mathematics 3-0-3 Coreq. Ed 451
esigned to acquaint future teachers with the new mathematics programs, to iscuss various methods and techniques of teaching mathematics, and to study pics not covered in other mathematics courses. Open only to students concurrently with Ed 451.

Department of Modern Languages

The Department of Modern Languages offers instruction in Fren German, Spanish, Russian, and Esperanto, with majors in French, Gern and Spanish. The courses in Modern Languages are designed to prov training in the language, literature, and civilization, whereby the student n gain an understanding and appreciation of the life and thought of the peo of the country. Language majors are encouraged to complement their ma program with courses in history, philosophy, and other foreign languages a literatures.

Majors in French, German, and Spanish are required to take 24 ho beyond 201-202 (Intermediate) and 12 hours in the second language. student planning to teach must include 213. These students should cons the Department of Education for certification requirments.

All Liberal Arts majors must take 6 hours of language beyond the 1 102 course to meet the language requirement. First semester credit for E mentary and Intermediate courses will be given only after the satisfact completion of the second semester.

Suggested Program—B.A. in Modern Languages

Freshman Year	*1st Sem.*	*2nd Sem.*
Modern Language	3	3
English 101-102	3	3
Psychology	3	–
Sociology	–	3
Religion	3	–
Political Science or Economics	–	3
History 101-102	3	3
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2n Se*
Modern Language	3	
Second Language	3	
Religion	3	
Fine Arts	–	
Science	4	
Physical Education	1	
Electives	3	

Junior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
Modern Language	3	3	Modern Language	3	3
Second Language	3	3	Philosophy or Ethics ..	3	–
Literature 201-202* ..	3	3	Philosophy 302	–	3
English 321	3	–	Electives	8	6
History 301 or 302	–	3			
Electives	6	6			

A total of 30 semester hours of courses numbered 300 or above must be included.

* May be Literature in the Second Language, which may be taken in the Junior or Senior year.

Courses of Instruction

Esperanto

Es 101 Esperanto 3-0-3
A study of the international language, Esperanto, including grammar, readings, and conversation. A student having completed this course satisfactorily may receive a diploma issued by the Esperanto Association of North America.

French

Fr 101 Elementary French 3-0-3
Fr 102 Elementary French 3-0-3 Prereq. Fr 101
An audio-lingual approach to a study of the structure of the language. Includes pronunciation, grammar, pattern drills, and reading selections to acquaint the student with French culture.

Fr 201 Intermediate French 3-0-3 Prereq. Fr 102 or qualifying grade in placement test or P.O.I.

Fr 202 Intermediate French 3-0-3 Prereq. Fr 201
A comprehensive grammar review incorporating the basic language skills—hearing, speaking, reading, and writing. Selected readings present French civilization and introduce the student to French writers.

Fr 213 Advanced French 3-0-3 Prereq. Fr 202 or P.O.I.
A review of fundamentals and an analysis of special problems in grammar and syntax. Includes original compositions, dictations, and reading of modern short stories.

Fr 214 Introduction to French Literature 3-0-3 Prereq. Fr 213 or P.O.I.
A transition from reading as an aid to language learning to the consideration of literary values. Selections of French masterpieces of various types and periods.

Fr 311 French Literature of the Middle Ages and the Renaissance 3-0-3 Prereq. Fr 213

Fr 312 French Literature of the Middle Ages and the Renaissance 3-0-3 Prereq. Fr 311
An analysis of the development of the French language and literature in Medieval society. Readings from the Chanson de Roland to Villon and from Rabelais to Ronsard. (Given on Demand)

Fr 313 Literature of the Seventeenth Century 3-0-3 Fr 213
Fr 314 Literature of the Eighteenth Century 3-0-3 Fr 213
Readings from Descartes, Corneille, Racine, Molière, Pascal, Marivaux, Montesquieu, Voltaire, Rousseau, and others. (Alternate years)

Fr 315 LITERATURE OF THE 19TH CENTURY 3-0-3 Prereq. Fr 213
Fr 316 LITERATURE OF THE 20TH CENTURY 3-0-3 Prereq. Fr 213
Readings from Chateaubriand, Lamartine, Hugo, Balzac, Stendhal, Flaub
Sartre, Proust, Camus, and others. (Alternate years)

Fr 411 CONTEMPORARY LITERATURE 3-0-3 Prereq. Fr 213
Fr 412 CONTEMPORARY LITERATURE 3-0-3 Prereq. Fr 411
A study of the litterateurs of today in the fields of poetry, the novel, the thea
and the essay. (Given on demand)

Fr 490 INDEPENDENT READINGS 2-0-2 Prereq. P.O.I.
Readings selected to fit the needs of individual seniors and to supplement t
selection of courses.

GERMAN

Ge 101 ELEMENTARY GERMAN 3-0-3
Ge 102 ELEMENTARY GERMAN 3-0-3 Prereq. Ge 101
An audio-lingual approach to the study of the structure of the language.
cludes pronunciation, grammar, pattern drills, and reading selections dea
with the historical, cultural, and social aspects of life in Germany.

Ge 201 INTERMEDIATE GERMAN 3-0-3 Prereq. Ge 102 or qualifying gr
in placement test

Ge 202 INTERMEDIATE GERMAN 3-0-3 Prereq. Ge 201
A comprehensive grammar review incorporating the basic language skill
hearing, speaking, reading, and writing; reading of modern prose with emp
sis on vocabulary building and oral practice on material read.

Ge 213 ADVANCED COMPOSITION AND CONVERSATION 3-0-3 Prereq. Ge
or P.O.I.
Intensive practice in speaking and writing everyday German; review of gra
mar.

Ge 214 SURVEY OF GERMAN LITERATURE 3-0-3 Prereq. Ge 213 or P.O
An introduction to German Literature, stressing the early periods to the ti
of Goethe.

Ge 311 GERMAN LITERATURE SINCE GOETHE 3-0-3 Prereq. Ge 213
Ge 312 GERMAN LITERATURE SINCE GOETHE 3-0-3 Prereq. Ge 213
Reading and discussion of the works by German Realists, Naturalists and I
pressionists. (Alternate years)

Ge 313 GERMAN DRAMA OF THE NINETEENTH CENTURY 3-0-3 Prereq. Ge 2

Ge 314 GERMAN DRAMA OF THE TWENTIETH CENTURY 3-0-3 Prereq. Ge 2
A close examination of the dramas of Grillparzer, Hebbel, Hauptmann, Brec
and others. (Alternate years)

Ge 411 GERMAN CLASSICISM AND ROMANTICISM 3-0-3 Prereq. Ge 213
Ge 412 GERMAN CLASSICISM AND ROMANTICISM 3-0-3 Prereq. Ge 4
Reading of representative works of the period, with emphasis on authors su
as Lessing, Goethe, Schiller, and Heine. (Given on demand)

Ge 490 INDEPENDENT READINGS 2-0-2 Prereq. P.O.I.
An opportunity for senior majors to undertake a project in some area of G
man literature.

Spanish

p. 01 Elementary Spanish 3-0-3
p. 02 Elementary Spanish 3-0-3 Prereq. Sp 101
r audio-lingual approach to the study of the structure of the language. ides pronunciation, grammar and pattern drills, and reading selections to aint the student with Spanish speaking civilizations.

p 201 Intermediate Spanish 3-0-3 Prereq. Sp 102 or qualifying grade in placement test
p 202 Intermediate Spanish 3-0-3 Prereq. Sp 201
omprehensive grammar review incorporating the basic language skills—ing, speaking, reading, and writing. Selected readings present highlights panish and/or Spanish American culture.

213 Advanced Grammar and Composition 3-0-3 Prereq. Sp 202 or P.O.I.
letailed study of the structure of the language. Includes varied exercises, ted translations and original compositions.

214 Spanish Conversation 3-0-3 Prereq. Sp 202 or P.O.I.
ourse designed to give the student opportunities to communicate effectively h some fluence in various situations.

311 Spanish Civilization 3-0-3 Prereq. Sp 202
introduction to the significant aspects of Spanish culture, their characteris- and contributions.

312 Spanish American Civilization 3-0-3 Prereq. Sp 202
introduction to the civilization of the Spanish American countries, their torical evolution, their institutions, their spiritual life.

411 Spanish Literature to 1700 3-0-3 Prereq. Sp 311
study of the principal literary trends and a study of the major authors of ain up to the Golden Age. (Alternate years)

412 Spanish Literature from 1700 3-0-3 Prereq. Sp 311
survey of the principal literary trends and a study of the major authors of ain from 1700 to present day. (Alternate years)

413 Spanish American Literature 3-0-3 Prereq. Sp 311 or Sp 312
414 Spanish American Literature 3-0-3 Prereq. Sp 413
survey of the major literary developments and a study of the major authors Spanish America from the conquest to the present time. (Alternate years)

490 Independent Readings 2-0-2 Prereq. P.O.I.
n opportunity for senior majors to undertake a project in some area of panish or Spanish American literature.

Russian

u 101 Elementary Russian 3-0-3
u 102 Elementary Russian 3-0-3 Prereq. Ru 101
he essentials of grammar, drill in pronunciation, practice in speaking, writing, nd translation from prose selections.

u 201 Intermediate Russian 3-0-3 Prereq. Ru 102 or qualifying grade in placement test
u 202 Intermediate Russian 3-0-3 Prereq. Ru 201
further study of grammar and practice in conversation; reading and trans- ation devoted to the geography, history, religion, and culture of Russia.

Department of Music

The Department of Music offers all students many opportunities for study of music on a professional or non-professional level. Students may se varied courses, secure private instrumental and vocal instruction, and elect participate in performing ensembles.

The student who majors in music at Elizabethtown College, because his special abilities and aptitude, will obtain both a broad general and prof sional education. It is expected that through the study of music educatio teacher will be able to pass on to younger generations a love for musical beau a knowledge of music as an art form and a capacity to be an effective lea or participant in musical activities.

Students desiring to meet certification requirements for teaching in public schools of Pennsylvania will find a program qualifying them to tea both vocal and instrumental music at both elementary and secondary lev

Suggested Program—B.S. in Music Education

Freshman Year	*1st Sem.*	*2nd Sem.*
Applied Music	3	3
First (private)		
Second (private)		
Ensemble		
Music 101-102	3	3
Music 103-104	1	1
Psychology 101	3	–
Education 101	–	3
English 101-102	3	3
Religion 101-202	3	3
Physical Education	1	1

Sophomore Year	*1st Sem.*	*2 Se*
Applied Music	3	
First (private)		
Second (private)		
Ensemble		
Music 201	3	–
Music 203-204	1	1
Music 208	–	2
Literature	3	3
Science	4	4
Instruments		
Music 231 (Brass) ..	1	–
Music 233 (Percussion)	–	1
Music 241-242 (Strings)	1	1
Physical Education	1	1

r Year	*1st Sem.*	*2nd Sem.*
lied Music	2	2
rst (private)		
nsemble		
ic 311-312	3	3
cation 203	3	–
ic 321-322	3	3
ory 301-302	3	3
uments		
usic 343-344 (ww)	1	1
usic 341 (ad.st.) .	1	–
anities 351	–	3
tive*	–	2

Senior Year	*1st Sem.*	*2nd Sem.*
Applied Music	2	2
First (private)		
Ensemble		
Music 489	8	–
Music 441-442	3	3
Music 408	–	2
Philosophy or Ethics ..	–	3
Electives*	–	5

ree semester hours of electives must be taken in either Economics, Political ience, or Sociology to fulfill College social science requirements. The remaining urs may be Music 415, 417, or liberal arts subjects.

Courses of Instruction

Music Courses

101 Basic Music Theory 3-0-3

introductory course, open to any student, dealing with basic rhythmic, odic, harmonic, and structural elements of music. Analysis and creative ing are included.

102 Harmony 3-0-3 Prereq. Mu 101

tudy of chords and chord inversions, non-chordal tones, and simple modu- ons. Opportunity throughout the semester for analysis of varied styles, and tive expression.

103 Sight-Singing and Ear Training 0-2-1

104 Sight-Singing and Ear Training 0-2-1 Prereq. Mu 103

ourse designed to cultivate aural and oral skills in music. Includes singing writing of rhythmic, melodic, and harmonic progressions dictated by voice, no, or tape.

111 Voice Class 0-2-1

112 Voice Class 0-2-1

basic study of the fundamentals of breath control, tone production and elopment of vocal technique. Open to all students.

201 Advanced Harmony 3-0-3 Prereq. Mu 102

continuation of Music 101-102 involving more intensive and detailed study harmonic techniques of the 18th-20th centuries. Survey and application of enth, ninth, and eleventh chords; borrowed and altered chords; and more olved modulations. Stress upon individual creative work and composition oughout the course.

203 Advanced Sight-Singing and Ear Training 0-2-1 Prereq. Mu 104

204 Advanced Sight-Singing and Ear Training 0-2-1 Prereq. 203

continuation of Music 103-104 involving further development in sight-read- g and dictation abilities. Three and four-part writing stressed in the second nester. Extensive part-singing training an integral phase of the course.

Mu 208 KEYBOARD HARMONY 2-0-2 Prereq. Mu 201
A course designed to develop skills in harmonizing melodies at the piano us various appropriate chord structures, modulatory progressions, and suita piano accompaniments for given melodies. Some attention given to impr zation techniques.

Mu 212 CHURCH MUSIC 2-0-2
A study of the music of the Christian Church—historical, theoretical, a practical—preparing the student for better musical participation or leaders in any Protestant denomination.

Mu 231 BRASS CLASS 0-2-1
A course including the method of tone production, fingerings or positions, c and repair, and methods and materials for teaching trumpet or cornet, Fre horn, baritone, trombone, and bass horn.

Mu 233 PERCUSSION CLASS 0-2-1
A course including the methods of tone production, care and repair, a methods and materials for teaching snare drum, bass drum, cymbals, tymp and other percussion instruments.

Mu 241 ELEMENTARY STRING CLASS 0-2-1
Mu 242 INTERMEDIATE STRING CLASS 0-2-1 Prereq. Mu 241
A course including the method of tone production, fingerings, care and rep and methods and materials for teaching violin, viola, violoncello, and dou bass.

Mu 303 FUNDAMENTALS OF MUSIC 3-0-3
A basic study of the science of sound; elements of notation; voice and cho instruments, band and orchestras; the directing of group singing; and a br survey of the history of music.

Mu 311 MUSIC IN THE ELEMENTARY SCHOOL 3-0-3 Prereq. Mu 208
A thorough study of music objectives, materials, and methods for elementa schools through singing, rhythmic, creative, and listening programs. Detai study and use of recent school music series. Observation and laboratory portunities included.

Mu 312 MUSIC IN THE SECONDARY SCHOOL 3-0-3
Methods and materials for secondary music classes. Attention is given adolescent voice problems, choral literature appropriate for school grou general music class materials, organizational procedures, and class planni Observation and laboratory experience included.

Mu 315 HISTORY AND APPRECIATION OF MUSIC 3-0-3
A study of historical art periods with particular attention given to great co posers and their outstanding compositions. The primary purpose is to devel a standard of musical taste.

Mu 321 CHORAL—INSTRUMENTAL CONDUCTING AND TECHNIQUES 3-0
Prereq. Mu 201
Mu 322 CHORAL—INSTRUMENTAL CONDUCTING AND TECHNIQUES 3-0
Prereq. Mu 321
A course designed to give students knowledge and facility in directing chorus bands, and orchestras. Conducting techniques, choral and instrumental tec niques and problems, score reading, and interpretation are included.

Mu 341 Advanced String Class 0-2-1 Prereq. Mu 242
Continuation of Music 242 with emphasis upon development of string techniques.

Mu 343 Woodwind Class 0-2-1
Mu 344 Woodwind Class 0-2-1 Prereq. Mu 343
Course including the methods of tone production, fingerings, care and repair, and methods and materials for teaching flute, oboe, clarinet, bassoon, and saxophone.

Mu 408 Form and Analysis 2-0-2 Prereq. Mu 201
Study of the basic principles underlying musical forms with opportunity to analyze their application through auditory and visual music examples.

Mu 415 Classical-Romantic Music Literature 2-0-2 Prereq. Mu 201, Mu 315 or Ed 318
Survey of instrumental and vocal music of the Classical and Romantic periods.

Mu 417 Impressionistic-Modern Music Literature 2-0-2 Prereq. Mu 201, Mu 315 or Ed 318
Survey of instrumental and vocal music from Impressionism to contemporary periods.

Mu 419 Counterpoint 2-0-2 Prereq. Mu 201
Course emphasizing contrapuntal techniques of the 16th and 17th centuries through representative composers and original compositions. Attention to 18th century counterpoint as time allows.

Mu 440 Band and Orchestra Arranging 2-0-2 Prereq. Mu 201 and Mu 208
Course designed to develop the ability to compose or adapt music for concert or marching bands and orchestras. A study of instrument ranges, limitations, and uses and effects in various combinations is included.

Mu 441 History of Music 3-0-3 Prereq. Mu 201
Mu 442 History of Music 3-0-3 Prereq. Mu 441
Comprehensive survey of Western music from ancient to modern times. The course includes the evolution of musical forms, styles and media through careful consideration of music literature and the relation of musical to cultural and historical developments.

Mu 451 Piano Methods and Materials 2-0-2 Prereq. Mu 252
This course acquaints the pianist with modern methods of piano teaching of children, youth, and adults, and includes a survey of teaching materials for various stages of progress. Teaching demonstrations will be a part of the course.

Mu 489 Student Teaching in Music - -8 Prereq. Mu 311, Mu 312
Includes teaching experience in both elementary and secondary music classes. Instrumental and vocal opportunities available. Conferences, observation, and teaching included.

Applied Music and Music Organizations

A maximum of eight semester hours in Applied Music and/or Music Organizations may be applied towards an A.B. or B.S. degree (except music education majors). No credit in music orgainzations is given unless attendance at rehearsals and public performances is satisfactory and unless participation extends over the entire school year.

Mu 251-252-253-254 Piano ½-5-1
Mu 261-262-263-264 Organ ½-5-1
Mu 271-272-273-274 Voice ½-5-1

Mu 281-282-283-284 Band and Orchestral Instruments ½-5-1
Students in Applied Music are accepted at any stage of progress, and are a
vanced as rapidly as their ability, industry, and thoroughness will permit. T
nical exercises, etudes, and Baroque, Classic, Romantic, and Modern pieces
indispensable elements of study at all times in instrumental applied areas.
Voice, the problems of vocal improvement, technique, breathing, and dic
are stressed. Songs and arias by Classical, Romantic, and Modern compo
are used to develop taste and to build for each student a repertoire which
contain music appropriate for all occasions.

*Mu 332 Women's Chorus 0-1-½
Open to any female student who enjoys singing mostly secular music—perfo
at the annual Winter and Spring Concerts.

*May be repeated for credit.

*Mu 333 Men's Glee Club 0-1-½
Open to any male student who enjoys singing mostly secular music—perfo
at the annual Winter and Spring Concerts.

*Mu 334 Concert Band 0-3-1
Open to any student—acceptance subject to approval by director—performs
home soccer games and on at least four other occasions—including May D
the annual Winter and Spring Concerts, and an all-instrumental program.

*Mu 335 String Ensemble 0-1-½
Open to any student who plays an instrument of the violin family—acceptan
subject to approval by director. Students become familiar with the best str
quartet and string orchestra literature.

*Mu 336 Chapel Choir 0-1-½
Open to any student. Performs sacred choral literature at College Cha
services.

*Mu 337 Concert Choir 0-4-1
Open to any student—acceptance based upon audition at the opening of ea
school year. In addition to campus and TV performances prior to Christm
and participation in the annual Spring Concert, this group sings approximate
twenty concerts in churches and schools in Pennsylvania and neighbori
states each spring.

Mu 338 Choral Union No credit
A combination of all vocal groups united for the presentation of great cho
literature such as an oratorio. A limited number of rehearsals are projecte

*Mu 391 Small Vocal Ensemble 0-1-½

*Mu 392 Small Instrumental Ensemble 0-1-½
Any students who are organized as an ensemble, who meet regularly und
faculty supervision, and who have opportunities for public performanc

* May be repeated for credit.

* May be repeated for credit.

Department of Physical Education and Health

The Department of Physical Education and Health affords an opportunity for all students to develop an interest in play and recreation that will of use and pleasure to them during college and later life; to develop social d moral standards such as sportsmanship, teamwork, tolerance, and other aracter benefits which come from properly conducted play. It affords an portunity for the development and maintenance of organic power of the dy which will aid in good health. The department further provides facili-s and opportunities for the improvement of neuro-muscular skills in ordination and correct use of the body.

The required program for all students in the first two years includes alth instruction for good living practices, practice and instruction in the ndamental skills and elementary training in volleyball, archery, golf, wres-ng, basketball, bowling, badminton, tennis, softball, soccer, and individual ercise. Swimming and aquatic activities are conducted by the college staff.

Basic Requirement: All students at Elizabethtown College are required take (4) semester hours of physical education courses. Most curriculums ll for (PE 103-104) men and (PE 101-102) women and (PE 201-202) ed to be taken during the first two years of college unless otherwise pre-ribed in a specific program. Elementary Education majors take PE 251 nd a semester of an aquatic activity.

Courses of Instruction

E 101 Women's Team Sports 0-2-1
nstruction and practice in the fundamental techniques of field hockey and asketball (fall), volleyball and softball (spring). Stressing the develop-ent of basic skills and knowledge of these activities.

PE 102 Women's Swimming 0-2-1
Skills and techniques of the nine basic strokes—survival swimming and w
safety. Classes for beginners, intermediate and advanced.

PE 103 Men's Team Sports 0-2-1
Instruction and practice in the fundamental techniques of soccer and w
tling (fall) basketball and softball (spring). Interpretation of the pla
rules of these sports.

PE 104 Men's Swimming 0-2-1
Skills and techniques of the nine basic strokes—survival swimming and w
safety. Classes for beginners, intermediate and advanced.

PE 121 Individually Adapted Sports 0-2-1 Prereq. P.O.I.
PE 122 Individually Adapted Sports 0-2-1 Prereq. P.O.I.
Open to students who, for reasons of partial disability, are unable to en
in other basic courses. Course content will vary according to students n

PE 201 Coed Individual Sports 0-2-1
Fall session: Tennis, badminton and volleyball.
Spring session: Bowling, archery and golf.
Skills, rules, and playing techniques.

PE 202 Coed Sports Appreciation 0-2-1
Ethics, strategy and rules of our varsity sports program; officiating, ph
ology of exercise, First Aid, carry over activities and worthy use of leis
time.

PE 216 Life Saving 0-2-1
Knowledge and practice in life saving, water safety and pool management. Meets Red Cross certification requirements.

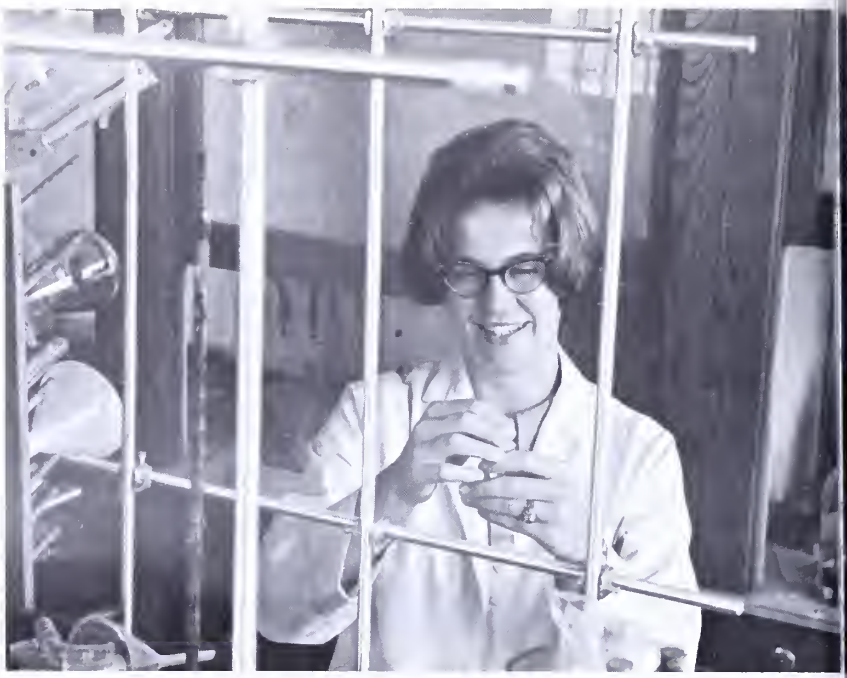
PE 217 Water Instructor 0-2-1 Prereq. PE 216
Advanced skill in life saving, swimming instruction and use of pool equipment. Meets Red Cross Water Instructor certificate requirement.

PE 223 Advanced Individually Adapted Sports 0-2-1 Prereq. P.O.I.
PE 224 Advanced Individually Adapted Sports 0-2-1 Prereq. P.O.I.
Open to students who, for reasons of partial disability, are unable to enroll in other basic courses. Course content will vary according to student's need.

PE 251 Health and Hygiene 3-0-3
A study of personal health and hygiene; philosophy, educational principles and techniques applied to teaching situations in health and hygiene.

PE 270 Advanced Individual Sports 3-0-3
Methods, techniques and teaching skills in selected sports. Taught Summer Session only.

PE 280 Elementary Games and Activities 3-0-3
A study of physical growth of children from ages 4-12, and consideration of games and activities appropriate to the physical development of the child in the elementary grades. Taught Summer Session only.



Department of Physics

The Physics Department of Elizabethtown College has three (3) ma instructional objectives. They are:

(1) to train students in the area of physics with graduate school the ultimate objective.
(2) to train students in the area of teaching with work leading to s ondary school certification in the field of physics.
(3) to train students in the area of pre-engineering.

Major Requirements: The following physics and mathematics cour are required of all Physics majors—Phy 203-204, Phy 205, Phy 303-3 Phy 305-306, Phy 401-402, Phy 403, Phy 404, Ma 232, Ma 331, Ma 314.

Suggested Program—B.S. in Physics

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2 Se*
Chemistry 101-102	4	4	Elective or		
English 101-102	3	3	Modern Language* .	3	
Mathematics 131-132 ..	4	4	History 101-102	3	
Modern Language	3	3	Mathematics 231-232 ..	4	
Religion 101	–	3	Physics 203-204	4	
Physical Education	1	1	Social Science	3	
			Physical Education	1	

* Modern Language of 200 level must be elected here unless completed in Fre man year.

Junior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2n Se*
Literature	3	3	English 321	–	

hematics 331	4	–	Fine Arts	3	–
sics 205	3	–	Mathematics 314	3	–
sics 303-304	3	4	Philosophy or Ethics ..	3	–
sics 305-306	3	3	Physics 401-402	3	4
gion 202	–	3	Physics 403-404	3	4
al Science	–	3	Physics 490	–	2

Courses of Instruction

201 General Physics 3-2-4 Prereq. Ma 115
202 General Physics 3-2-4 Prereq. Phy 201
introduction to the basic concepts of physics including the areas of me-nics, heat, sound, electricity, magnetism, optics, atomic and nuclear.

203 Introductory Physics 3-2-4 Coreq. Ma 231
204 Introductory Physics 3-2-4 Prereq. Phy 203
205 Introductory Physics 3-2-4 Prereq. Phy 204
introduction to the theory of mechanics, heat, wave motion, electricity, gnetism and light.

303 Electricity and Magnetism 3-0-3 Prereq. Phy 205 Coreq. Ma 331
304 Electricity and Magnetism 3-3-4 Prereq. Phy 303
theory of the static and dynamic forces and fields associated with basic rticles, electrical components, measurements, alternating current, radia-n and Maxwell's equations.

y 305 Introduction to Theoretical Mechanics 3-0-3 Prereq. Phy 204, Ma 232
y 306 Introduction to Theoretical Mechanics 3-0-3 Prereq. Phy 305
study of force, acceleration, work, energy, impulse and momentum. Linear d rotary motion will be analyzed including the use of various types of erence coordinates and vector analysis.

y 401 Atomic Physics 3-0-3 Prereq. Phy 202 or Phy 205 and Ma 232
study of atomic an molecular structure, the quantum theory of radiation d spectra.

y 402 Nuclear Physics 3-3-4 Prereq. Phy 401
study of radioactivity, nuclear forces, nuclear reactions, and particles.

y 403 Kinetic Theory and Thermodynamics 3-0-3 Prereq. Phy 204 and Ma 232
study of the kinetic theory of matter and of the principles of thermody-mics including temperature, heat, work, internal energy, entropy and thalpy.

y 404 Electronics 3-3-4 Prereq. Phy 202 or Phy 205 and Ma 232
he basic components of electronic circuits will be studied including vacuum bes, transistors, and diodes. Fundamental circuits will be analyzed.

hy 490 Seminar 2-0-2 Prereq. P.O.I.
xperimental or theoretical study under the direction of a staff member. A rmal report of work will be required.

r 115 Drawing and Descriptive Geometry 1-5-3
r 116 Drawing and Descriptive Geometry 1-5-3 Prereq. Dr 115
study of reference planes, points, lines, curved surfaces, revolutions, true zes, intersections, othographic projection, isometric drawing, auxiliary iews, sections, and developments.

Department of Psychology

Although psychology includes a diversity of problems and attracts pec with widely different interests, psychologists are unified in a common conc with describing, predicting, and understanding human and animal behav Because of this common concern, psychology has many relationships v other disciplines, sciences, and professions. The history of psychology is dee rooted in philosophy and in the natural sciences. Psychology as a science its origins in the biological and social sciences. Finally, in the application a utilization of knowledge, psychology is involved with other fields such as e cation, physics, engineering, medicine, law, religion, psychiatry, advertising, a social work. While a professional career is psychology requires an advan degree, an undergraduate degree is useful in a number of related fields of deavor.

Suggested Program—B.A. in Psychology

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2* *Se*
English 101-102	3	3	Literature	3	
History 101-102	3	3	Biology 101-102	4	
Language	3	3	Language or Elective* .	3	
Religion-Psychology 101	3	3	Religion 202	3	
Social Science	3	3	Mathematics 174	–	
Physical Education	1	1	Psychology 203-204 ...	4	
			Physical Education	1	

* Modern Language must be elected here unless 200 level Modern Language v passed in Freshman year.

Junior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2* *Se*
Fine Arts	3	–	Psychology 443, 332 ..	3	
Philosophy or Ethics ..	–	3	Psychology 403, 404 ..	3	
Psychology 307, 308 or 311	4	4	Electives	9	
Psychology 321, 322 .	3	3			
Electives	4	6			

The student would have 5 lab and 5 lecture courses beyond the introducto course for a total of 38 semester hours in his major field.

Courses of Instruction

Psy 101 General Psychology 2-1-3
An introduction to the study of behavior—objectively, systematically, expe mentally, and quantitatively; consideration of such topics as motivation, lear ing, emotions, personality, sensory and perceptual processes. The laborato will consist of small group discussions and experimental demonstrations psychological phenomena. This course is a prerequisite to all advanced cours in psychology.

Psy 202 Educational Psychology SEE Ed 202
Psy 203 Experimental Psychology 3-2-4 Prereq. Psy 101
Psy 204 Experimental Psychology 3-2-4 Prereq. Psy 203
Provides an introduction to methods of experimentation and statistical ana ysis as applied to classical and current research problems in psycholog Specific topics will be chosen from the fields of learning, sensation, perceptio emotion, and the like. Communicating research findings via written repor and familiarity with the literature in the given fields will be emphasized.

s 307 Comparative Psychology 2-4-4 Prereq. Psy 101
udy of the major contributions made in the field of behavioral research
nimal experimentation. The topics treated most intensively are: learning,
ory processes, individual differences, and the biological basis of behavior.
h relevance of animal research to the understanding of human behavior is
sed. This is a laboratory course which involves the student in actual
ial experimentation.

s 308 Physiological Psychology 3-2-4 Prereq. Psy 101 and Bio 102
y of the fundamental physiological mechanisms known to be important in
ory-motor, motivational, and adaptive behavior, with emphasis on the neu-
lgical and endocrinological bases of behavior. The laboratory sessions will
lve the study of behavioral effects of physiological alterations.

s 311 Developmental Psychology 3-2-4 Prereq. Psy 101 and P.O.I.
ourse designed to provide a background in the basic principles of onto-
etic development. Although the entire life cycle from conception to death
overed, special emphasis is given to the changes in behavior that take place
ng the early growth of the individual. The laboratory involves the student
children at various levels of development. Cannot be taken for credit if
student has had Psy 312.

312 Child Psychology 3-0-3 Prereq. Psy 101
general growth, maturational, and developmental aspects of the child from
ception through adolescence. Cannot be taken for credit by the student
has completed Psy 311.

321 Personality: Theory and Research 3-0-3 Prereq. Psy 101
tematic approaches to the analysis of personality will be critically surveyed
h respect to their source materials, empirical research substantiating them,
l contributions to the understanding of personality development. Factors
ted to personality integration as well as sources of emotional conflict will
considered, with emphasis on the "normal" personality.

322 Abnormal Psychology 3-0-3 Prereq. Psy 321 or P.O.I.
nsideration of neurosis, psychosis, personality and organic disorders; their
gin, treatment, social significance, and preventive measures; attention is
en to the levels and adequacy of adjustment for both normal and deviant
lividuals.

y 332 Social Psychology 3-2-4 Prereq. Psy 101
is course introduces the student to the application of psychological princi-
s in the understanding of social phenomenon. Typical topics of emphasis
e: social motivation; language, cognition, and attitude; communication and
rsuasion; and leadership. The laboratory experience provides the student
th (1) an opportunity to apply experimental techniques to social phenomena,
(2) contact with current social issues through local agencies.

y 403 History and Systems of Psychology 3-0-3 Prereq. Psy 101
ne main emphasis is on the historical roots in philosophy and scientific in-
stigation. Influence of phenomenology, logical positivism, behaviorism,
estalt, and other schools of thought will be considered.

sy 404 Contemporary Theory in Learning and Motivation 3-0-3
Prereq. Psy 101
n integrative course designed to compare contemporary theoretical formula-

tions and consider currently important issues and viewpoints through a re w of selected theoretical and experimental literature. The interrelations of le n- ing, perception, cognition, and motivation will be stressed.

Psy 411 INDUSTRIAL PSYCHOLOGY 3-0-3 Prereq. Psy 101
A survey of the subject matter and techniques most often associated with e field of industrial psychology. These include: personnel selection, perfo n- ance appraisal, training, morale, leadership, communication, mental health d human factors research. Attention is also given to the academic base of sc n- tific industrial psychology.

Psy 443 STATISTICS AND EXPERIMENTAL DESIGN IN BEHAVIORAL RESEA H 3-0-3 Prereq. Psy 101
Emphasis on methodology in research, sampling and descriptive statistics, n- parametric methods, psychophysical methods, correlation, analysis of variat and sampling theory.

Psy 490 SENIOR SEMINAR 3-0-3 Prereq. 15 hours in Psychology
Designed to give the advanced student who plans to pursue graduate stu the opportunity to study intensively some of the current issues in psycholog l research.

Psy 495 SPECIAL PROBLEMS IN PSYCHOLOGY Variable Prereq. 15 ho s in Psychology and P.O.I.
Designed to give the student an opportunity to design and carry out resea in the preparation of a senior honor's paper.

Department of Religion and Philosophy

The faculty personnel of the Religion and Philosophy Department of abethtown College considers the major purpose of the department to be of confronting students with contemporary religious and philosophical ught. This confrontation is provided in basic and advanced courses in lical studies, Christian thought, world religions and in studies of classical osophy and contemporary philosophy.

Departmental Biblical studies are conducted in a reverent spirit and in light of basic contemporary Biblical scholarship which considers the ificant contributions of archeology, linguistic and historical research. The artment allows and encourages freedom of conscience in Biblical inter- tation. Instructional emphasis assumes a position of interpretation con- ent with our Reformation-Anabaptist-Pietistic heritage within the Christian urch. Opportunities for questions and discussion in class as well as in sonal conferences are always available to the student.

The Religion and Philosophy Department functions as one department hin a liberal arts curriculum whose comprehensive goal is the pursuit of th and attitudes which are consistent with the Christian faith.

jor Requirements: A minimum of thirty-three (33) hours over and above basic departmental courses included in the Bachelor of Arts program.

Suggested Program—B.A. in Religion and Philosophy

shman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
ligion 101	3	–	Religion 202	3	–
glish 101-102	3	3	English 201-202	3	3
story 101-102	3	3	Science	4	4
reign Language	3	3	Foreign Language or Elective	3	3
ciology 101	–	3	Philosophy 201 or Mathematics	3	–
ychology 101	3	–	Philosophy 302	–	3
usic 315 or Humanities 351	–	3	Social Science	–	3
ysical Education	1	1	Physical Education	1	1

nior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
nglish 321	3	–	Philosophy	3	–
iterature	–	3	Religion 303	3	–
eligion 351	3	–	Religion 316	3	–
istory 408	–	3	History 203	–	3
eligion 301-302	3	3	Social Science	–	3
eligion 231	3	–	Electives	3	6
eligion 312	–	3	Departmental Electives	6	3
ocial Science	3	3			

Religion and Philosophy majors are required to complete twelve (12) ours in one of the following disciplines: Economics, Political Science, Psychology, Sociology.

Religion

Rel 101 Survey of Biblical History 3-0-3
A foundation course for subsequent study in Bible and Philosophy acquain the student with the basic historical and theological perspectives found the Judeo-Christian scripture.

Rel 202 Survey of Biblical History 3-0-3 Prereq. Rel 101
This course is the sequel to Rel 101 and is a basic course in Biblical thou bringing the Bible into mature focus. The emphasis is on the later hist of the Bible.

Rel 231 Old Testament Literature 3-0-3 Prereq. Rel 202
A study of the various literary types in the Old Testament with a spe emphasis on the Psalms, Wisdom Literature, and the Prophetic Literature

Rel 301 New Testament Greek 3-0-3 Prereq. Rel 202
Rel 302 New Testament Greek 3-0-3 Prereq. Rel 301
An introductory course in New Testament Greek for students interested a thorough study of the Bible.

Rel 303 The Teaching Ministry 3-0-3 Prereq. Rel 202
A study of the fundamentals of religious education as applied to proble in the home, methods of work in the Church, the school, the Sunday Sch and other community efforts for the Christian education of both children a adults.

Rel 304 World Religions 3-0-3 Prereq. Rel 202
This is an introduction to the major religions of the world. Their orig characteristics, and contributions to world culture are studied from a co parative perspective.

Rel 305 Sociology of Religion 3-0-3 Prereq. Rel 202 and So 101
An analysis of the role and functions of religion and religious institutions society. Religion will be seen as both a cultural and a social system.

Rel 312 New Testament Thought 3-0-3 Prereq. Rel 202
A consideration of the thought patterns and the theological insights fou in the teachings of Jesus, the Pauline and Johannine writings, the Gene Epistles and Hebrews.

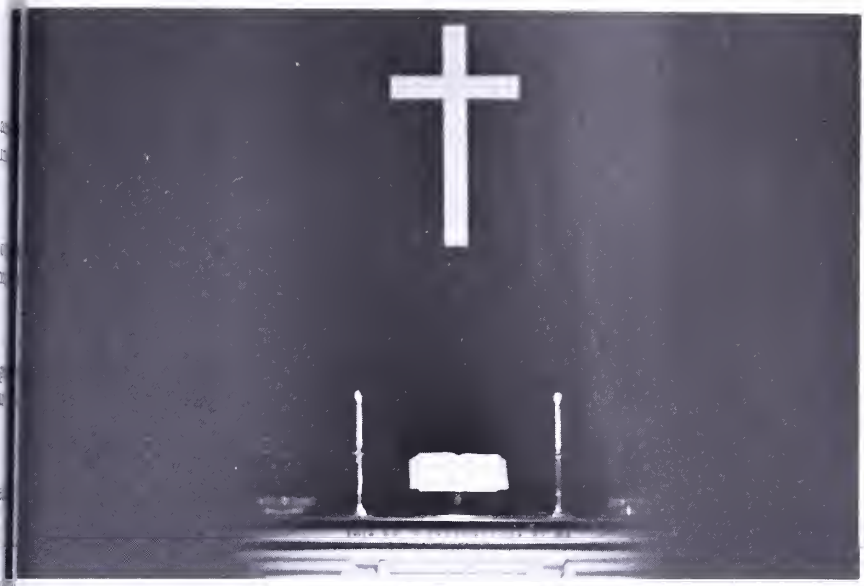
Rel 313 History and Program of the Church of the Brethren 3-(Prereq. Rel 202
A course designed to give the student an understanding of the historical ba ground of the Church of the Brethren and a view of its present program.

Rel 316 History of Christian Thought 3-0-3 Prereq. Rel 202 and F 312
A survey of representative thinkers in the history of the Christian Chur and an examination of the central doctrines of the Christian Faith.

Rel 351 Christian Ethics 3-0-3 Prereq. Rel 202
An introduction to the historical types of Christian and western philosophi ethics, relating the material to the contemporary situation.

Rel 402 Advanced New Testament Greek 3-0-3 Prereq. Rel 202, F 301, and Rel 302
Extensive reading and exegesis in New Testament Greek from various N Testament books. Advanced grammar will be a part of the course.

Rel 490 Seminar in Religion 3-0-3 Prereq. 12 semester hours in Re gion and Philosophy and P.O.I.
An intensive study of a special area of inquiry within the field of religio



Philosophy

I 201 Introduction to Philosophy 3-0-3
An introduction to philosophical inquiry through a consideration of the encering problems of philosophy. Emphasis is placed upon the acquiring of a basic set of philosophical categories.

l 302 Logic 3-0-3
Examination of the fundamental principles of thought through a study of deductive and inductive reasoning. An introduction to the basic elements of symbolic logic is provided.

h 372 Philosophical Ethics 3-0-3 Prereq. Rel 202
A survey of the major types of philosophical ethics in the Western world, starting with the Greeks.

h 381 History of Philosophy 3-0-3 Prereq. Rel 202 and Ph 201
h 382 History of Philosophy 3-0-3 Prereq. Rel 202 and Ph 201
Survey of the leading schools of Western philosophy with particular attention to historical antecedents and continuity. An assessment of the contribution of each school to contemporary philosophical discussion will be made.

h 383 Aesthetics 3-0-3 Prereq. Rel 202
An inquiry into the nature of the various art forms and their place in experience. Attention is given to the problems attending the description, interpretation, and evaluation of aesthetic objects.

h 384 American Philosophy 3-0-3 Prereq. Rel 202 and Ph 302 and P.O.I.
A general survey of American philosophical thought with an emphasis on Peirce, James, Royce, Santayana, Dewey and Whitehead.

h 481 Philosophy of Religion 3-0-3 Prereq. Rel 202 and Rel 351 or Ph 201 and P.O.I.
A study of man's primary religious beliefs as they have developed in the Western world from the viewpoint of philosophical and theological perspectives.

h 495 Independent Study Variable Prereq. P.O.I.
The student may pursue an intensive study in a special area of philosophical inquiry.

Department of Sociology

Sociology is the study of man's relation to man; an attempt to accou for the origin, growth, structure, and activities of human society. It is, furth more, a study of human beings as members of a variety of societal grou It employs the methods of modern science in examining and classifying t phenomena arising out of human associations, and in discovering the te dencies, uniformities, and laws operating in society.

Sociology is thus fundamental to a full understanding of the politi and economic institutions which are studied specifically and in detail by oth divisions of the social sciences. It also undertakes the study of certain i stitutions, groups, and phenomena, less specifically approached by other fiel of knowledge: the family, the community, religious, racial, nationality, a class groups; the prevention and treatment of delinquency and crime; t nature and functioning of custom, and "public opinion"; the character, caus and effects of social change.

The courses in anthropology offered by this department are designed permit students of the College to acquire a fund of basic information abo the principles of anthropology and an acquaintance with the diversity of wor cultures.

Suggested Program—B.A. in Sociology

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2n Se*
English 101-102	3	3	Modern Language	3	3
Modern Language	3	3	Philosophy 201-		
Religion 101-			Religion 202	3	3
Sociology 101	3	3	Literature	3	3
Social Science	3	3	Biology	4	4
History	3	3	Mathematics-		
Physical Education	1	1	Sociology 102	3	3
			Physical Education	1	1

Junior Year	*1st Sem.*	*2nd Sem.*	*Senior Year*	*1st Sem.*	*2nd Sem.*
English 321	3	–	Logic or Humanities ..	3	–
Humanities	–	3	Ethics	–	3
Social Science	3	3	Sociology 489	3	–
History	3	3	Sociology 490	–	3
Sociology 321	3	–	Sociology Electives ...	9	6
Anthropology	–	3	Elective	–	3
Elective	3	–			
Sociology Electives ...	3	3			

Courses of Instruction

Sociology

So 101 Introduction to Sociology 3-0-3
A brief synopsis of the field of sociology; an introduction to the study of the social life of man and to fundamental sociological concepts and approaches.

So 102 Social Issues 3-0-3 Prereq. So 101
Consideration of the major issues of modern society, including crime, mental disorders, civil rights, and racial, ethnic, and international tensions; an attempt to reveal the nature of the problems and to acquaint the student with what society is doing and can do about them.

So 204 Educational Sociology SEE Ed 204

So 211 Population 3-0-3 Prereq. So 101
A study of population, its volume, growth, trends, composition; the relation of population units in their various aspects to economic, social, political, and other major forces, trends and institutions.

So 212 Social Institutions 3-0-3 Prereq. So 101
A study of the origin, development, structure, and function of the major social institutions, their interrelationships and their total social context.

So 305 Sociology of Religion 3-0-3 Prereq. Rel 202 and So 101
An analysis of the role and function of religion and religious institutions in society. Religion will be seen as both a cultural and a social system.

So 312 Racial and Ethnic Relations 3-0-3 Prereq. So 101
A brief account of the varieties of man along with an introductory examination of the concept of culture; a consideration of racial and cultural contacts and an analysis of intergroup relations in different parts of the world.

So 321 Methods of Social Research 3-0-3 Prereq. So 101
An introduction to the techniques of sociological research with special emphasis upon sampling, interviewing, participant observation, experimentation, and prediction; a discussion of sociometry is also included.

So 322 Introduction to Social Work 3-0-3 Prereq. So 321
An introductory course designed for those students contemplating a career in social service; the history of social welfare, the organization of public and private welfare services, the nature of group work and individual case work are some of the topics covered.

So 401 The Community 3-0-3 Prereq. So 212; open to Juniors and Seniors only
A study of the structure and function of the community together with an analysis of existing individual and group relationship, and an examination of specific types of communities (e.g., rural-urban) illustrating these factors.

So 402 Criminology 3-0-3 Prereq. So 102
A consideration of the causes of criminal behavior and an analysis of polic for the prevention of crime and the treatment of criminals.

So 403 Marriage and the Family 3-0-3 Prereq. So 101; open to Juni and Seniors only
A brief comparative view of different family patterns; a functional approa to questions related to both premarital and postmarital aspects of marri and family life in our American culture.

So 489 Sociological Theory 3-0-3 Prereq. So 101; Open to Seniors or Analysis of the social theories from early times to the present day, w special emphasis on the relation of social thought to contemporary cultu

So 490 Senior Seminar in Sociology 3-0-3 Prereq. So 489
Readings and discussion of problems in sociology; research paper ordinar required. Topic of the seminar will be chosen in accord with the needs a interests of the participants.

Anthropology

An 111 World Cultures 3-0-3
A survey of the more important peoples and cultures of the world from ear times to the present, with emphasis on physical, cultural, linguistic, a demographic factors.

An 201 Introduction to Anthropology 3-0-3
An introductory course in the study of man, his place in nature, his biologic development, racial differentiation, and archeological history prior to the daw of European and Oriental history.

An 202 Cultural Anthropology 3-0-3
A detailed survey of the universal categories of culture along with a consider tion of the major theories relating to culture, society, and personality.

Composite Courses

Certain programs of study preparing students for technical and professic careers, the preparation for which is not expressly covered by majors in various departments, are presented in this section.

Engineering—B.A. and B.S. Degrees

Major Requirements: The following suggested program plus the two-y engineering program at Pennsylvania State University.

Curricula which Elizabethtown students will be qualified to enter Pennsylvania State include acronautical, civil, electrical, industrial, mechanic and sanitary engineering. In order to be eligible for admission into The Pe sylvania State University, the student must be recommended by Elizabetht College.

Upon successful completion of the five-year program, the student v receive a Bachelor of Arts degree from Elizabethtown College and a Bache of Science degree from The Pennsylvania State University.

Suggested Program—Engineering

Freshman Year	*1st Sem.*	*2nd Sem.*
Physical Education	1	1
Religion 101	–	3
Chemistry 101-104	4	4
Engineers Drawing and Desc. Geometry	3	3
English Composition 101-102	3	3
Mathematics 131-132 ..	4	4

Sophomore Year	*1st Sem.*	*2n Se*
Foreign Language	3	3
Mathematics 231-232 ..	4	4
Physics 203-204	4	4
Economics	–	3
Literature	3	3
Physical Education	1	1

Junior Year	*1st Sem.*	*2nd Sem.*
Philosophy	–	3
Fine Arts	–	3
Physics 305-306	3	3
Physics 205	4	–
Mathematics 331	3	–
Psychology 101	3	–
Religion 202	–	3
Social Science	–	3
Speech	3	–

The fourth and fifth years must be satisfactorily completed in the fiel of engineering at Pennsylvania State University.

Major Requirements: The completion of the following suggested prograr plus a fourth year in an accredited School of training in Medical Technolog will lead to the Bachelor of Science degree.

Medical Technology—B.S. Degree

Freshman Year	*1st Sem.*	*2nd Sem.*
English Composition 101-102	3	3

Sophomore Year	*1st Sem.*	*2na Sem*
Chemistry 201-202	4	4
Biology 205-206	4	4

Biology 101-102	4	4	Literature	3	3
Chemistry 101-102	4	4	History	3	3
Religion-			Social Science-Religion .	3	3
Social Science	3	3	Physical Education	1	1
Mathematics 131*	4	–			
Psychology 101					
Alternate: If Math 113-115 must be taken add Physical Education	1	1			

Junior Year	*1st Sem.*	*2nd Sem.*
Chemistry 301	4	–
Chemistry 322	–	4
Physics	4	4
Philosophy or Ethics ..	3	3
Physical Education or Elective	1	1
Social Science	3	–
Elective	3	3

That, in this curriculum Ma 103 (Mathematical Analysis) be defined "AS MEETING THE MATHEMATICS REQUIREMENTS FOR GRADUATION" instead of six (6) credits of Mathematics.

The fourth year is to be completed in an accredited school of training in Medical Technology. Upon the completion of such a course and the successful passing of the Registry Examination for medical technologists the Bachelor of Science degree will be conferred by Elizabethtown College.

Nursing—B.S. Degree

Major Requirements: A total of 66 semester hours plus the successful completion of a three-year nursing course at an approved nurses' training school.

Suggested Program

Freshman Year	*1st Sem.*	*2nd Sem.*	*Sophomore Year*	*1st Sem.*	*2nd Sem.*
Religion 101-102	3	3	Chemistry 101-104	4	4
Biology 101-102	4	4	English 201-202	3	3
English 101-102	3	3	Psychology 312 (Child)	3	–
History 101	3	–	Ethics-Religion 351-		
Mathematics 111 or 113	–	3	Philosophy 201	–	3
Sociology 101	3	–	Anthropology 201	3	–
Psychology 101	–	3	Political Science 352 ..	3	–
Physical Education	1	1	Humanities 251	–	3
			Elective	–	3

Upon the satisfactory completion of the two-year college course and the three-year nursing course at an approved nurses' training school, and the passing of a state board examination for the R.N. degree, the student will be eligible for the Bachelor of Science degree from Elizabethtown College.

College Calendar

1966 - 1967

September	12	(Monday)	New Faculty Rep
September	13	(Tuesday)	All Faculty Rep
September	14	(Wednesday)	Faculty Sessi
September	15	(Thursday)	Freshmen Arr Registrat
September	16	(Friday)	Freshmen Reading Program—Discuss
September	17	(Saturday)	Freshmen Reading Program—Discuss
September	18	(Sunday)	Upperclassmen and Transfers Arr
September	19	(Monday)	Freshmen Orientati Upperclassmen and Transfers Regis
September	20	(Tuesday)	Classes Beg
October	22	(Saturday)	Homecoming D
November	13	(Sunday)	Founder's D
November	22	(Tuesday 5:00 p.m.)	Thanksgiving Recess Begi
November	28	(Monday 7:40 a.m.)	Classes Resu
December	16	(Friday 5:00 p.m.)	Christmas Recess Begi
January	2	(Monday 7:40 a.m.)	Classes Resur
January	13	(Friday)	Last Day of Class
January	16-25	(Monday-Wednesday)	Semester Examinatio
January	29	(Sunday)	Mid-year Commenceme
January	30-31	(Monday and Tuesday)	Second Semester Registratic
February	1	(Wednesday)	Classes Beg
March	22	(Wednesday 5:00 p.m.)	Spring Vacation Begi
March	26	(Sunday)	Easte
April	3	(Monday 7:40 a.m.)	Classes Resum
May	13	(Saturday)	May Day and Alumni Da
May	16	(Tuesday)	Last Day of Classe
May	17-27	(Wednesday-Saturday)	Semester Examinatior
May	28	(Sunday)	Baccalaureate and Commencemer

Summer Sessions - 1967

June	12	(Monday)	Summer Session I Begin
July	4	(Tuesday)	Independence Day (No Classes
July	14	(Friday)	Summer Session I End
July	17	(Monday)	Summer Session II Begin
August	18	(Friday)	Summer Session II End
August	18	(Friday)	Summer Commencemen

College Calendar

1967 - 1968

ember	11	(Monday)	New Faculty Report
ember	12	(Tuesday)	All Faculty Report
ember	13	(Wednesday)	Faculty Sessions
ember	14	(Thursday)	Freshmen Arrive—Registration
ember	15	(Friday)	Freshmen Reading Program—Discussion
tember	16	(Saturday)	Freshmen Reading Program—Discussion
tember	17	(Sunday)	Upperclassmen and Transfers Arrive
tember	18	(Monday)	Upperclassmen and Transfers—Registration
tember	19	(Tuesday	Classes Begin
ober	14	(Saturday)	Homecoming Day
vember	13	(Monday)	Founder's Day
vember	21	(Tuesday 5:00 p.m.)	Thanksgiving Recess Begins
vember	27	(Monday 7:40 a.m.)	Classes Resume
cember	15	(Friday 5:00 p.m.)	Christmas Recess Begins
uary	2	(Tuesday 7:40 a.m.)	Classes Resume
uary	12	(Friday)	Last Day of Classes
uary	15-24	(Monday-Wednesday)	Semester Examinations
uary	28	(Sunday)	Mid-year Commencement
uary	29-30	(Monday and Tuesday)	Second Semester Registration
uary	31	(Wednesday)	Classes Begin
ril	5	(Friday 5:00 p.m.)	Spring Vacation Begins
ril	14	(Sunday)	Easter
ril	16	(Tuesday 7:40 a.m.)	Classes Resume
ay	4	(Saturday)	May Day and Alumni Day
ay	14	(Tuesday)	Last Day of Classes
ay	15-25	(Wednesday-Saturday)	Semester Examinations
ay	26	(Sunday)	Baccalaureate and Commencement

Summer Sessions - 1968

ne	17	(Monday)	Summer Session I Begins
ly	4	(Thursday)	Independence Day—No Classes
ly	19	(Friday)	Summer Session I Ends
ly	22	(Monday)	Summer Session II Begins
ugust	23	(Friday)	Summer Session II Ends
ugust	23	(Friday)	Summer Commencement

ELIZABETHTOWN COLLEGE
CLASS OF 1952

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The affairs of the Alumni Association are managed by a board of six councilmen and one representative from each active alumni chapter, all whom are elected by members of the Association. The officers of the cou who are also officers of the Association, are a president, two vice-president secretary, and an executive secretary.

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The Alumni Annual Appeal offers an opportunity and an invitation alumni to assist in the support of their Association and of the College. I a well-known fact that no student in Elizabethtown has ever paid the whole of his education. A part of this cost is provided by interested alumni and friends.

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ELIZABETHTOWN COLLEGE BULLETIN

Ralph W. Schlosser Residence for Women

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ELIZABETHTOWN COLLEGE BULLETIN

Elizabethtown College • Elizabethtown, Pennsylvania

Catalog Supplement

July, 1967 Vol. LIV Number 1

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CALENDAR

1967—1968

AUTUMN SEMESTER, 1967

September 16	Saturday	Registration (freshmen and transfers)
September 18	Monday	Registration (upperclassmen)
September 19	Tuesday	Classes begin, 8:00 A.M.
November 22	Wednesday	Thanksgiving Recess begins, 5:00 P.M.
November 27	Monday	Classes resume, 8:00 A.M.
December 15	Friday	Christmas Recess begins, 5:00 P.M.
January 2	Tuesday	Classes resume, 8:00 A.M
January 15	Monday	Final Examinations begin
January 28	Sunday	Mid-Year Commencement, 2:30 P.M.

SPRING SEMESTER, 1968

January 29	Monday	Registration
January 30	Tuesday	Classes begin, 8:00 A.M.
April 9	Tuesday	Spring Recess begins, 5:00 P.M.
April 16	Tuesday	Classes resume, 8:00 A.M
May 20	Monday	Final Examinations begin
June 2	Sunday	Commencement-Baccalaureate, 3:00 P.M.

SUMMER SESSION, 1968

June 17	Monday	First Term begins
July 4	Thursday	Holiday
July 22	Monday	Second Term begins
August 23	Friday	Summer Commencement

CALENDAR

1968–1969

AUTUMN SEMESTER, 1968

September 21	Saturday	Registration (freshmen and transfers)
September 23	Monday	Registration (upperclassmen)
September 24	Tuesday	Classes begin, 8:00 A.M.
November 27	Wednesday	Thanksgiving Recess begins, 5:00 P.M.
December 2	Monday	Classes resume, 8:00 A.M.
December 20	Friday	Christmas Recess begins, 5:00 P.M.
January 6	Monday	Classes resume, 8:00 A.M.
January 20	Monday	Final Examinations begin
February 2	Sunday	Mid-Year Commencement, 2:30 P.M.

SPRING SEMESTER, 1969

February 3	Monday	Registration
February 4	Tuesday	Classes begin, 8:00 A.M.
April 1	Tuesday	Spring Recess begins, 5:00 P.M.
April 8	Tuesday	Classes resume, 8:00 A.M.
May 19	Monday	Final Examinations begin
June 1	Sunday	Commencement-Baccalaureate, 2:30 P.M.

SUMMER SESSION, 1969

June 16	Monday	First Term begins
July 4	Friday	Holiday
July 21	Monday	Second Term begins
August 22	Friday	Summer Commencement

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John M. Miller, Lititz, Pa.
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Troy M. Thompson, Elizabethtown, Pa.

Term Expires 1967

Cyrus G. Bucher (SP), Biglerville, Pa.
Paul M. Grubb, Elizabethtown, Pa.
Carl G. Herr (AA), Lancaster, Pa.
Norman E. Keller, Lebanon, Pa.
Galen C. Kilhefner (EP), Elizabethtown, Pa.
Howard A. Merkey (EP), Manheim, Pa.
J. Aldus Rinehart, West Englewood, N. J.
D. C. Stambaugh, Lancaster, Pa.
S. Clyde Weaver (EP), Lancaster, Pa.

Term Expires 1968

Frank S. Carper (EP), Palmyra, Pa.
John G. Hershey, Lititz, Pa.
I. Wayne Keller, Lancaster, Pa.
Joseph W. Kettering (EP), Elizabethtown, Pa.
Benjamin G. Musser (AA), Harrisburg, Pa.
Horace E. Raffensperger, Elizabethtown, Pa.
Noah S. Sellers (SP), Lineboro, Md.
John F. Sprenkel, York, Pa.
Earl K. Ziegler (SP), Brodbecks, Pa.

Term Expires 1969

Clifford B. Huffman (EP), Lancaster, Pa.
Nancy Hoffman Robb (AA), Washington, D. C.
Chester H. Royer (SP), York, Pa.
Jacob H. Ruhl (EP), Manheim, Pa.
V. Lester Schreiber (EP), New Holland, Pa.
Samuel S. Wenger, Lancaster, Pa.

BOARD OF ASSOCIATES

Term Expires 1967

Richard A. Coleman (EP), Harrisburg, Pa.

Term Expires 1968

Norman L. Bowers (EP), Landisville, Pa.
Albert E. Richwine (EP), Harrisburg, Pa.

Term Expires 1969

Margaret Miller Cassel (EP), Lititz, Pa.
Walter A. Keeney (SP), McKnightstown, Pa.
M. Guy West (SP), York, Pa.

Representation on the Board of Trustees is indicated as follows: (EP) Eastern Pennsylvania District of the Church of the Brethren; (SP) Southern Pennsylvania District of the Church of the Brethren; (AA) Alumni Association. All others are nominees of the Board itself.

ADMINISTRATION

1967—1968

OFFICE OF THE PRESIDENT

Morley J. Mays, Ph.D. ..... *President*
Robert E. Ziegler, Ph.D. ..... *Assistant to the President*
James M. Berkebile, Ph.D. ..... *Director of Teachers for West Africa Program*
Doris O. Lewis ..... *Secretary to the President and Recording Secretary to the Board of Trustees and Associates*
James L. Keefer ..... *Manager of the Data Processing Center*

ACADEMIC ADMINISTRATION

Wayne L. Miller, Ph.D. ..... *Dean of the Faculty*
Anna M. Carper, M.S. ..... *Director of the Library*
Irene Saylor, M.S. ..... *Library Cataloger*
E. Margaret Gabel, M.S. ..... *Head Cataloger and Assistant to the Librarian*
Constance B. Cooke, M.S.L.S. ..... *Readers' Services Librarian*
Elizabeth A. Miller, B.S. ..... *Library Assistant in Charge of Circulation*
D. Paul Greene, B.D. ..... *Director of Admissions*
Jerald L. Garland, M.S. in Ed. ..... *Assistant Director of Admissions*
Donald L. Neiser, B.S. ..... *Registrar*
Martha A. Eppley, M.B.A. ..... *Director of Summer Sessions*

BUSINESS ADMINISTRATION

Earl H. Kurtz, M.A. ..... *Treasurer*
Gerald H. Risser, B.S., C.P.A. ..... *Business Manager*
J. Robert Hollinger ..... *Chief Accountant*
W. E. Weaver, M.Ed. ..... *Manager of Bookstore and Post Office*

Martha A. Farver ..... *Office Manager and Secretary to the Treasurer*
Walter E. Brown ..... *Superintendent of Buildings and Grounds*
Arthur L. Cardinal ..... *Manager of Jay's Nest*
William J. Zibilich ..... *Director of Food Service*

STUDENT PERSONNEL ADMINISTRATION

Edward L. Crill, M.Ed. ..... *Dean of Students*
Vera R. Hackman, A.M. ..... *Dean of Women*
Royal E. Snavely, M.A. ..... *Dean of Men*
Opal E. Nees, A.B. ..... *Director of Student Activities*
Robert D. Sherfy, B.D. ..... *College Minister*
William H. Bentz, B.S. ..... *Director of Financial Aid*
John M. Tulley, M.Ed. ..... *Director of Athletics*
Elizabeth F. Bruckhart, M.S. ..... *Assistant in Student Personnel Services*
D. Jane Ikenberry, M.A. ..... *Assistant Dean of Women*

DEVELOPMENT AND PUBLIC RELATIONS ADMINISTRATION

James L. M. Yeingst, M.A. ..... *Director of Development and Public Relations*
Robert V. Hanle, B.A. ..... *Director of Alumni Relations and Director of Placement*
Robert S. Young ..... *Director of Special Gifts*
D. Kenneth Hollinger ..... *Director of Church Relations*
Glenn E. Irwin, B.A. ..... *Director of Bequests and Estate Planning*

FACULTY

1967—1968

Morley J. Mays, *President*
A.B., Juniata College; A.M., University of Pittsburgh; Ph.D., University of Virginia. (1966)

Wayne L. Miller, *Dean of the Faculty*
A.B., Manchester College; M.S., Purdue University; B.D., Bethany Theological Seminary; Ph.D., University of Southern California. (1967)

Emeriti

Ralph W. Schlosser, *President Emeritus*
Pd.B., Elizabethtown College; A.B., Ursinus College; A.M., Columbia University; Litt.D., Ursinus College. (1911)

Bessie D. Apgar, *Professor of Biology, Emerita*
A.B., Muskingum College; M.S., University of Pittsburgh; Ph.D., University of Pennsylvania. (1946)

Charles S. Apgar, *Professor of Biology, Emeritus*
B.S., M.S., Ph.D., University of Pittsburgh. (1946)

Richard W. Bomberger, *Professor of English, Emeritus, Department Chairman*
A.B., Franklin and Marshall College; A.M., University of Virginia. (1962)

The date following each name is that of the first appointment to the faculty of Elizabethtown College.

Clarence G. Enterline, *Alumni Secretary and Director of Placement, Emeritus*
B.S., Albright College; M.S., University of Pennsylvania. (1956)

Nevin W. Fisher, *Professor of Music, Emeritus*
Graduate, Blue Ridge College; Teachers' Certificate, Peabody Conservatory of Music; B.M., Eastman School of Music, University of Rochester; M.Music, Northwestern University. (1951)

Ira R. Herr, *Professor of Physical Education, Emeritus*
A.B., Franklin and Marshall College; University of Pennsylvania; Temple University. (1928)

J. Z. Herr, *Treasurer and Business Manager, Emeritus*
B.E., Elizabethtown College; Columbia University. (1905)

Martha Martin, *Professor of Bible, Emerita*
A.B., Elizabethtown College; Bethany Theological Seminary; New York Theological Seminary; University of Pennsylvania. (1924)

E. G. Meyer, *Professor of Music, Emeritus*
Pd.B., A.B., Elizabethtown College; A.M., Columbia University. (1921)

Gertrude Royer Meyer, *Professor of Music, Emerita*
Graduate in Music, Western Maryland College. (1920)

Mary B. Reber, *Professor of Art, Emerita*
B.E., Elizabethtown College. (1928)

Norman N. Weisenfluh, *Professor of Psychology and Education, Emeritus*
M.A., University of Pennsylvania; Ph.D., University of Pittsburgh. (1964)

PROFESSORS

*James M. Berkebile, *Professor of Chemistry*
A.B., Manchester College; A.M., Ph.D., The Ohio State University. (1957)

Edgar T. Bitting, *Professor of Business, Department Chairman*
B.S., Elizabethtown College; M.B.A., University of Pennsylvania; C.P.A. (1952)

Elizabeth M. Garber, *Professor of Political Science, Department Chairman, Coordinator of Study Abroad*
A.B., Hood College; M.A., George Washington University; Docteur de l'Université, University of Paris; LL.D., Hood College. (1966)

Elmer B. Hoover, *Professor of Education, Department Chairman*
B.S., Juniata College; M.Ed., The Pennsylvania State University. (1947)

**David I. Lasky, *Professor of Psychology, Department Chairman*
A.B., A.M., Ph.D., Temple University. (1960)

Carl N. Shull, *Professor of Music, Department Chairman*
B.S., Bridgewater College; M.Music, Northwestern University; Ph.D., The Florida State University. (1961)

O. F. Stambaugh, *Professor of Chemistry, Department Chairman, Faculty Marshal*
B.S., Lebanon Valley College; M.S., Ph.D., The Pennsylvania State University. (1946)

Joseph P. Zaccano, Jr., *Professor of History*
A.B., Dickinson College; M.A., Ph.D., University of Pittsburgh. (1962)

ASSOCIATE PROFESSORS

Irvin L. Bossler, *Associate Professor of Mathematics, Department Chairman*
B.S., Ursinus College; M.S., Purdue University. (1959)

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*Non-instructional
**Absent on Leave, 1967–68

Carl J. Campbell, *Associate Professor of English*
A.B., Franklin and Marshall College; M.A., University of Pennsylvania. (1962)

Anna M. Carper, *Director of the Library*
A.B., Elizabethtown College; M.S., Columbia University. (1960)

Hubert M. Custer, *Associate Professor of Physics, Department Chairman*
B.S. in E.E., Carnegie Institute of Technology; M.S., Franklin and Marshall College. (1963)

J. Thomas Dwyer, *Associate Professor of English*
A.B., M.A., University of Pennsylvania. (1960)

Elinor Eastlack, *Associate Professor of Business Education*
B.S., M.Ed., The Pennsylvania State University. (1952)

Antonio Felice, *Associate Professor of Psychology*
A.B., A.M., Ph.D., Temple University. (1962)

E. Margaret Gabel, *Assistant to the Director of the Library and Head Cataloger*
B.S., Kutztown State College; M.S. (L.S.), Syracuse University. (1966)

Ben B. Hess, *Associate Professor of History*
A.B., Elizabethtown College; M.A., The Pennsylvania State University. (1962)

A. F. Kish, *Associate Professor of Business Administration*
B.S., Rutgers—The State University; M.S., University of Delaware. (1963)

Donald E. Koontz, *Associate Professor of Mathematics*
B.S., Juniata College; M.A., The Pennsylvania State University. (1961)

R. Bruce Lehr, *Associate Professor of Sociology, Department Chairman*
A.B., Bucknell University; M.A., Mexico City College. (1961)

Clyde K. Nelson, *Associate Professor of History, Department Chairman*
A.B., The King's College; B.D., Th.M., Eastern Baptist Seminary; M.A., University of Pennsylvania. (1959)

Rollin E. Pepper, *Associate Professor of Biology, Department Chairman*
A.B., Earlham College; M.S., Syracuse University; Ph.D., Michigan State University. (1964)

Zoe G. Proctor, *Associate Professor of Chemistry*
B.S., Elizabethtown College; M.S., Bucknell University. (1959)

John P. Ranck, *Associate Professor of Chemistry*
B.S., Elizabethtown College; M.A., Ph.D., Princeton University. (1963)

T. C. Sebastian, *Associate Professor of Physics*
B.S., University of Madras; Ph.D., Saint Louis University. (1966)

Armon C. Snowden, *Associate Professor of Religion and Philosophy*
A.B., Elizabethtown College; B.D., Crozer Theological Seminary. (1957)

Martin O. L. Spangler, *Associate Professor of Chemistry*
B.A., Bridgewater College; M.S., Ph.D., Virginia Polytechnic Institute. (1966)

Stanley T. Sutphin, *Associate Professor of Religion and Philosophy*
A.B., LaVerne College; B.D., Bethany Theological Seminary; Th.D., Pacific School of Religion. (1963)

Stanley E. Walker, *Associate Professor of Education*
B.S., Gettysburg College; M.Ed., Duke University; D.Ed., The Pennsylvania State University. (1966)

*David P. Willoughby, *Associate Professor of Music*
B.S., Lebanon Valley College; M.E., Miami University (Ohio). (1960)

Owen L. Wright, *Associate Professor of Physical Education, Department Chairman*
B.A., Bridgewater College; M.S., University of Illinois. (1961)

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*Absent on Leave, 1967–68

JOHN M. YANCEY, *Associate Professor of Psychology*
B.A., Bridgewater College; M.A., University of Florida. (1964)
CARL W. ZEIGLER, *Associate Professor of Religion and Philosophy, Department Chairman*
A.B., Elizabethtown College; B.D., United Theological Seminary; D.D., Elizabethtown College. (1959)
**ROBERT E. ZIEGLER, *Associate Professor of Science*
B.A., Bridgewater College, M.R.E., Bethany Theological Seminary; M.S., Ph.D., University of Wisconsin. (1966)

ASSISTANT PROFESSORS

STANLEY K. BOWERS, *Assistant Professor of Education, Coordinator of Audio-Visual Services*
B.S., Millersville State College; M.Ed., Temple University. (1965)
EUGENE P. CLEMENS, *Assistant Professor of Religion and Philosophy*
B.A., Goshen College; M.A., University of Pennsylvania. (1965)
CONSTANCE B. COOKE, *Readers' Services Librarian*
B.A., University of Massachusetts; M.S.L.S., Western Reserve University. (1967)
JOHN C. COOKE, *Assistant Professor of Biology*
B.S., B.A., University of Massachusetts; Ph.D., University of Georgia. (1967)
ROBERT D. DOLAN, *Assistant Professor of Mathematics*
B.S., California State College; M.A., West Virginia University. (1964)
RUSSELL E. EISENBISE, *Assistant Professor of Sociology*
B.S., McPherson College; M.A., Temple University. (1962)
MARTHA A. EPPLEY, *Assistant Professor of Business Administration*
B.S., Elizabethtown College; M.B.A., Indiana University. (1964)
ROBERT B. GARRETT, *Assistant Professor of Health and Physical Education*
B.S., East Stroudsburg State College; Ed.M., Temple University. (1967)
SUZANNE SCHMITT GOODLING, *Assistant Professor of Languages*
B.A., Gettysburg College; M.A., Middlebury College. (1964)
HARRY J. GRAHAM, *Assistant Professor of Education*
B.S., Elizabethtown College; M.Ed., Temple University (1963)
CHARLES M. GRAUPERA, *Assistant Professor of Languages*
B.Litt., Institute of Havana; M.A., University of South Dakota. (1966)
JACK L. HEDRICK, *Assistant Professor of Chemistry*
B.S., Elizabethtown College; M.S., University of Pittsburgh. (1963)
KATHRYN NISLEY HERR, *Assistant Professor of Languages*
A.B., Lebanon Valley College. (1943)
ALLEGRA H. HESS, *Assistant Professor of Health and Physical Education*
B.S., Bridgewater College; M.S., Indiana University. (1961)
KENNETH J. HESS, *Assistant Professor of Mathematics*
B.S., East Stroudsburg State College; M.Ed., New York University. (1965)
*RICHARD T. HISE, *Assistant Professor of Business*
A.B., Gettysburg College, M.B.A., University of Maryland. (1961)
OTIS D. KITCHEN, *Assistant Professor of Music*
B.S., Bridgewater College; M.M., Northwestern University. (1965)
WILLIAM F. KLAUBER, *Assistant Professor of Education*
B.S., Elizabethtown College; M.Ed., Shippensburg State College. (1965)
JOHN E. KOONTZ, JR., *Assistant Professor of Mathematics*
B.S., Juniata College; M.A., Bowling Green State University. (1966)

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*Absent on Leave, 1967–68
**Non-instructional

J. Kenneth Kreider, *Assistant Professor of History*
A.B., Elizabethtown College; M.A., The Pennsylvania State University. (1964)

Henry M. Libhart, *Assistant Professor of English*
A.B., Franklin and Marshall College; Equivalent Master's Degree Certificate, Commonwealth of Pennsylvania. (1959)

Jason D. Lindower, Jr., *Assistant Professor of Business*
B.S., Manchester College; M.B.A., Indiana University; C.P.A. (1963)

Ernest E. Lundy, *Assistant Professor of Languages*
B.S., Bloomsburg State College; M.A., Middleburg College. (1966)

A. Carolyn Miller, *Assistant Professor of English*
A.B., Bridgewater College; M.A., University of Virginia. (1965)

Richard L. Mumford, *Assistant Professor of History*
B.S., University of Pennsylvania; M.Ed., University of Delaware. (1965)

Ruth J. Nearing, *Assistant Professor of Physical Education*
B.S., East Stroudsburg State College. (1963)

Stanley R. Neyer, *Assistant Professor of Business*
B.S., Elizabethtown College; C.P.A. (1964)

D. Kenneth Ober, *Assistant Professor of Physical Education*
B.S., M.S., West Chester State College. (1964)

M. Evelyn Poe, *Assistant Professor of English*
A.B., Houghton College; M.A., Cornell University. (1962)

H. Marshall Pomroy, *Assistant Professor of Business*
B.S., Elizabethtown College; C.P.A. (1964)

*D. Paul Rice, *Assistant Professor of Education*
A.B., Elizabethtown College; M.S. in Ed., Temple University. (1963)

Jobie E. Riley, *Assistant Professor of English, Director of Forensics*
B.A., Manchester College; B.D., Bethany Theological Seminary; M.A., Northwestern University. (1961)

Liga Grinbergs Roscher, *Assistant Professor of Languages*
A.B., Elizabethtown College; M.Ed., Temple University. (1963)

Irene Saylor, *Library Cataloger*
B.A., Albright College; M.S., Syracuse University. (1967)

Ronald L. Shubert, *Assistant Professor of Mathematics*
B.S., Elizabethtown College; M.A., University of Kansas. (1964)

Harry L. Simmers, *Assistant Professor of Music*
B.S., Bridgewater College; M.M., American Conservatory of Music. (1966)

Frederick W. Terry, *Assistant Professor of Mathematics*
B.S., Mansfield State College; M.A., Northwestern University. (1965)

John M. Tulley, *Assistant Professor of Physical Education* (*part-time*)
B.S., East Stroudsburg State College; M.Ed., West Chester State College. (1964)

*Joel D. West, *Assistant Professor of Psychology*
A.B., Manchester College; B.D., Bethany Theological Seminary; M.A., DePaul University. (1962)

Nancy Jo Barton Wise, *Assistant Professor of Sociology* (*part-time*)
B.A., Denison University; M.A., Ph.D., Indiana University. (1965)

Jacob W. Ziegler, *Assistant Professor of Business*
B.A., M.B.A., M.A., New York University. (1966)

INSTRUCTORS

Edward R. Bartel, *Instructor in Geography* (*part-time*)
B.S. in Ed., Shippensburg State College; M.S., The Pennsylvania State University. (1963)

Doris Kopp Bitting, *Instructor in Business* (*part-time*)
B.S., Elizabethtown College; M.Ed., Temple University. (1964)

*Absent on Leave, 1967–68

Virginia Hunter Burkey, *Instructor in Music* (*part-time*)
B.Mus.Ed., Westminster College; M.S.M., Union Theological Seminary. (1965)
Uldis Daiga, *Instructor in Languages*
B.A., University of North Carolina; M.A., Temple University. (1965)
Paul M. Eberts, *Instructor in Sociology* (*part-time*)
A.B., Franklin and Marshall College; B.D., Lancaster Theological Seminary. (1967)
Dorsey E. Enck, *Instructor in Physics* (*part-time*)
B.S. in Ed., Millersville State College; M.Ed., The Pennsylvania State University. (1965)
John F. Harrison, *Instructor in Music* (*part-time*)
B.M., M.M., The Florida State University. (1967)
Robert J. Heckman, *Instructor in Biology*
B.S., Elizabethtown College. (1964)
Eleanor Johnson Hoffer, *Instructor in English*
B.S., Shippensburg State College; M.A., Temple University. (1965)
Eloise Lisle Johnson, *Instructor in Music* (*part-time*)
B.M., Mount Union College; M.A., The Ohio State University. (1964)
Yvonne E. Kauffman, *Instructor in Physical Education*
B.S., Bridgewater College. (1966)
Robert E. Lamontagne, *Instructor in Political Science*
A.B., St. Anselm's College; A.M., University of Pennsylvania. (1967)
Donald G. Lederman, *Instructor in Psychology* (*part-time*)
B.S., The City College of New York; M.A., The Ohio State University; Ph.D., Washington State University. (1965)
Mona Wyles McGraw, *Instructor in Education*
B.S., Elizabethtown College; M.Ed., Shippensburg State College. (1965)
Francis M. Marciniak, *Instructor in Music*
B.S. in Music, Mansfield State College; M.M., Northwestern University. (1967)
Thomas W. Mast, *Instructor in Business*
B.B.A., M.B.A., University of Michigan. (1966)
James H. Mather, *Instructor in Psychology*
B.A., Westminster College; M.A., Bryn Mawr College. (1967)
John P. O'Haren, *Instructor in Business* (*part-time*)
(1965)
William V. Puffenberger, *Instructor in Religion and Philosophy*
B.A., Bridgewater College; B.D., Bethany Theological Seminary. (1967)
Donald A. Rineer, *Instructor in Business*
B.S., Millersville State College. (1967)
Harold W. Rineer, *Instructor in Business* (*part-time*)
B.S., Millersville State College. (1966)
Austin D. Ritterspach, *Instructor in Religion and Philosophy*
B.A., Indiana University; B.D., Union Theological Seminary; Ph.D., Graduate Theological Union. (1967)
Barbara Snyder Ruth, *Instructor in Business* (*part-time*)
A.B., Vassar College; M.S., Columbia University. (1967)
Admad H. Shamseddine, *Instructor in Economics*
B.A., M.A., Howard University; Associate Degree, University of Lebanon, Beirut. (1967)
Francis A. Smulders, *Instructor in Business* (*part-time*)
B.A., Gettysburg College
John H. Snyder, *Instructor in Sociology* (*part-time*)
B.A., West Virginia Wesleyan College. (1966)
Scott T. Swank, *Instructor in History*
B.S., Elizabethtown College; M.A., University of Pennsylvania. (1966)

Helen Heisey Wenger, *Instructor in English (part-time)*
B.A., LaVerne College; M.A., University of Pennsylvania. (1966)

GRADUATE ASSISTANT

Alice J. Lyons, *Graduate Assistant in Business*
B.S., Elizabethtown College. (1965)

Faculty Organization

In order that members of the Elizabethtown College Faculty might be more effective in fulfilling their corporate responsibilities in the process of academic policy making and programming, a new faculty organization was formed during the past year.

Under the new organization, the faculty at large is divided into three Divisions, each having representation on Councils dealing with various aspects of the academic program of the College and the professional interests of the teaching staff.

The Councils and their general areas of interest are:

The Academic Council—Admissions and academic awards, library services, academic occasions, and academic standing.

The Personnel Council—Professional standards of faculty members, faculty promotions, and faculty release.

The Campus Life Council—Concerts, lectures, athletics, and special events.

Each Council will have committees responsible for a given area of interest.

Department of Political Science

Beginning in September, 1967, students will be offered a new program leading to a Bachelor of Arts degree with a major in political science.

The new Department of Political Science, headed by Dr. Elizabeth M. Garber, has been established to assist students desiring to major in this field. Previously, the study of political science was a part of the program of the History Department.

Achievements in theory and in practice have been considerable as the study of politics has evolved to something approaching a positive science. Men have reflected repeatedly on the nature of political power, on the problems of structure and form, scope and process. Though politics is the major focus of political science, its problems are viewed from philosophical, historical, legal or jurisprudential, administrative, and behavioral frames of reference. Though political philosophers, historians, constitutional lawyers, students of politics and administration have furnished the main body of knowledge in political science, the contributions of economists, psychologists, and sociologists have been numerous and significant.

Courses offered by the Department for beginning students deal with the nature and place of politics in society, with the purposes, organization, and operation of political institutions and forces. Courses and seminars offered for those who become majors or who take additional work in political science deal with political theory, comparative political systems, international relations, and organization.

Statement of Charges

The expenses for the year are covered by a comprehensive fee, which for resident udents includes tuition, furnished room, board (exclusive of Thanksgiving, Christ- as, end of semester, and Easter vacations); use of library, union building, gymna- um, athletic field; admission to all athletic games on the campus; admission to ommunity cultural programs; subscriptions to the ETOWNIAN and CONESTO- AN; and limited use of the infirmary.

For commuting students the comprehensive fee covers the above except furnished oom, board, and limited use of the infirmary.

The comprehensive fee is as follows:

Resident student—Schlosser Residence	$2245.00
Resident students living in Brinser, Elizabeth Myer, H. K. Ober, and B. Mary Royer Residences	2195.00
All other campus resident students	2145.00
Off-campus residence	1818.00
Commuting Students	1390.00

Individual charges in addition to the comprehensive fee are as follows:

*Private piano, organ and voice lessons—Full-time students	$50.00 per semester
Examinations for advanced standing	$15.00 per semester hour
Accident and sickness insurance	$15.00 per year
Breakage Deposit—	
Male residents	$30.00
All others	10.00

*Individual instruction taken as part of a formal degree program is included with the comprehensive fee.

The above fees are on the basis of a full-time student taking from ten to eighteen hours per semester. Part-time students and hours in excess of eighteen will be charged at the rate of $40.00 per semester hour plus attendant course fees and student fees as individually determined. Tutorial courses are charged at the rate of $80.00 per semester hour.

The comprehensive fee is payable in quarterly installments which are due on September 1, December 1, the opening of the second semester, which occurs about February 1, and April 1. One-fourth of the comprehensive fee is due at each of these times.

Credit allowed for scholarships, grants-in-aid, self-help assignments, matriculation deposits and the like will be deducted from the second and fourth invoices. For those who have aid, the 1st and 3rd quarter invoices will normally be for greater amounts than the 2nd and 4th quarter invoices.

All fees are subject to change without notice.

Absence and Sickness

A student who is absent from College because of sickness, or for any other reason, and retains his place in class, pays in full during his absence.

Withdrawal

Notice of withdrawal must be given in writing to the Dean of the College. If such withdrawal occurs after July 1st, preceding the opening of college, the student forfeits his matriculation or pre-registration deposit and is liable for one-half of a semester's

room charge, if he was a resident student. If the withdrawal occurs after September 1, the resident student is liable for a full semester's room charge, plus losing the applicable deposit. If the withdrawal occurs after the beginning of the semester, the student is obligated for a full semester's room charge, actual board used to the date of withdrawal, plus 25% of the unused portion, and tuition as follows:

*Period of Attendance**	*Per Cent of Semester's Charge*
One week	25%
2 to 3 weeks	50%
Beginning of the 4th week	100%

*The first day of registration counts as the beginning of College.

The effective date for calculating refunds will be the date of the receipt of a written notice of withdrawal by the Dean.

A fee of $10.00 must accompany the application for admission. This fee covers the cost of processing the prospective student's application, is non-refundable, and cannot be applied toward the payment of other charges.

A successful applicant should send to the Director of Admissions, Elizabethtown College, a matriculation deposit of $50.00 within 30 days after receiving his letter of acceptance. This deposit reserves space in class and a room for boarding students. It will be credited to the student's account when he matriculates. The fee is not refundable.

Checks should be made payable to Elizabethtown College.

ESBENSHADE HALL—A modern classroom building dedicated in May, 1967. The building includes a large lecture hall, general purpose classrooms, and special facilities for the teaching of languages, physics, and psychology.

CORRESPONDENCE

All correspondence should be addressed to Elizabethtown College, Elizabethtown, Pennsylvania 17022. Correspondence dealing with a particular matter should be specifically directed as indicated below.

Academic Matters.....Dean of the Faculty
Alpha Hall

Admissions.....Director of Admissions
Alpha Hall

Alumni Activities.....Director of Alumni Relations
Alpha Hall

Athletic Program.....Director of Athletics
Baugher Student Center

Business Matters.....Office of the Treasurer
Alpha Hall

Financial Assistance.....Director of Financial Aid
Alpha Hall

General Information.....Director of Public Relations
Alpha Hall

Gifts or Bequests Information.....Director of Development
Alpha Hall

Living Accommodations.....Dean of Men
Alpha Hall
or
Dean of Women
Alpha Hall

Summer Session.....Director of Summer Session
Alpha Hall